

BRICK  
SCALE  
TABLES



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Charles H. Smith.

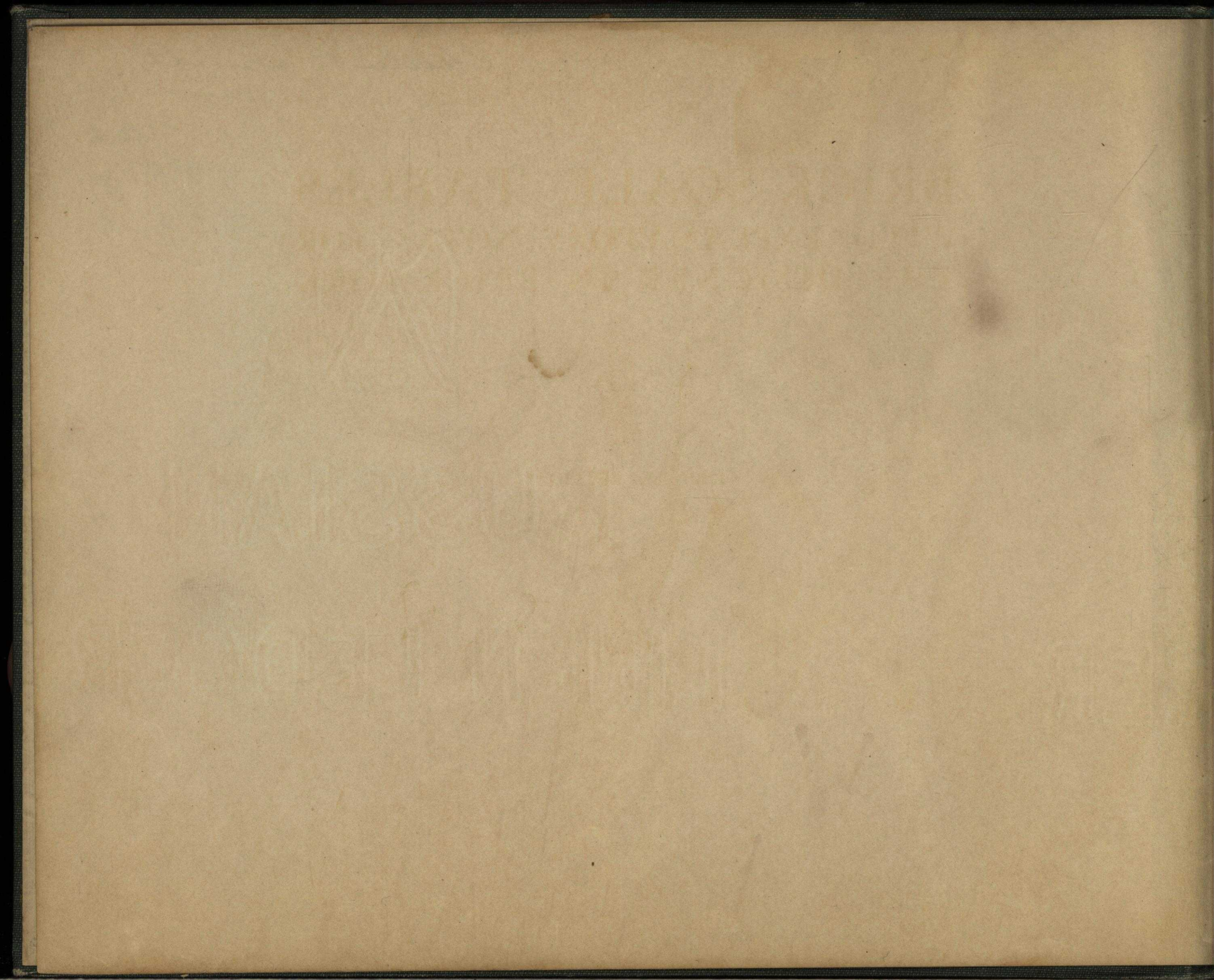
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BRICK-SCALE TABLES  
WITH EXPLANATORY NOTES FOR  
THE DESIGNER IN BRICKWORK

LIMITED EDITION

No. 350



BRICK SCALE TABLES  
WITH EXPLANATORY NOTES FOR  
THE ENGINEER IN BRICK WORK

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PRICE THREE DOLLARS.



## EXPLANATORY

IN presenting these Scales and Tables with the accompanying booklet, "Bonds and Mortars," the Hydraulic-Press Brick Company desires to aid in eliminating, so far as possible, the labor which is incident to the draughtsman's preparation of drawings for a brick structure. Too often the designer has been deterred from the use of an otherwise very desirable bond and pattern by the real difficulties that lie in adjusting the brick units to the wall dimensions, and has thus lost one of the finest and subtlest artistic effects which legitimately come within the range of his profession. These Scales and Tables, which are the result of mature architectural experience, have been prepared by Mr. M. P. McArdle, of St. Louis, with the express purpose of meeting this situation and of rendering what has been heretofore an irksome task—the preparation of working drawings for ornamental bond—a genuine pleasure. A little time on the part of the designer, spent in familiarizing himself with them, will, it is believed, convince him of their practical value, not only in the saving of time and in the accuracy of the work, but also in the opening up of new and higher possibilities in the artistic treatment of brickwork.

The Scales, divided on the basis of 1-4" to the foot, are fifteen in number, eight for vertical and seven for horizontal measurements, and are meant to furnish the architectural draughtsman with a ready and convenient method of determining the number of courses and joints in all brickwork, using one brick and joint as a unit of measurement. The Tables which accompany the Scales indicate the necessary dimensions for height and length of any number of brick, including joints, and are calculated so as to provide each Scale with its own corresponding Table.



The eight Vertical Scales represent units, of one brick and joint, ranging from  $2\ 1\text{-}2''$  to  $3\ 1\text{-}2''$ , at  $1\text{-}8''$  intervals, thus giving an opportunity to use a suitable scale to fit the height of brick and joint selected.

The seven Horizontal Scales, marked as A  $12\frac{1}{2}''$ , B  $12\frac{3}{4}''$ , C  $13''$ , D  $13\frac{1}{4}''$ , E  $13\frac{1}{2}''$ , F  $13\frac{3}{4}''$ , and G  $14''$ , are based on units ranging from a minimum size of a brick and small joint to that of a brick and largest cross-joint usually employed. The divisions of these Horizontal Scales represent one half brick or header, with the joint; and are obtained by dividing into three equal parts the total length of a header and stretcher plus two joints which, as the scales indicate, range from  $12\ 1\text{-}2''$  to  $14''$  for the combined header, stretcher, and two joints.

The Scales are printed on thin card, so that they may be used not only in the usual manner, but also in the more convenient method of slipping them under the tracing paper or cloth, thus permitting the draughtsman to trace directly the divisions—by far the easiest method in securing accurate and rapid work.

To select the proper Scales for the vertical and horizontal dimensions of any given wall to be erected, two factors must be carefully taken into consideration: first, the size of the brick to be used; and, secondly, the proposed size of joint in which the brick is to be laid. The brick size should always be obtained from actual measurements by averaging the size of a number of the bricks to be used, as they slightly differ in dimensions even when of the same variety.

A simple example will readily explain the selection of the proper Vertical and Horizontal Scales, and the proper Tables of heights and lengths, for any given case. Suppose the average size of the brick selected be  $2\ 1\text{-}4''$  thick,  $4''$  wide and  $8''$  long, and the width of the horizontal and vertical joints be  $1\text{-}2''$ , then the proper Vertical Scale would be  $2\ 3\text{-}4''$  ( $2\ 1\text{-}4'' + 1\text{-}2'' = 2\ 3\text{-}4''$ ); and the proper Horizontal Scale would be  $13''$  ( $4'' + 8'' + 1\text{-}2'' + 1\text{-}2'' = 13''$ ).

Especial attention is called to the fact that, in figuring the horizontal dimensions of piers, the width of one joint should be deducted from the total width of the pier, and the width of one joint should be added to the total width of the opening.



It should be noted that the Scales and Tables take into consideration the so-called "standard size" brick only, and do not apply to special brick such as Roman, Norman, English, or split brick. Where such brick are used—either for the entire structure or in connection with standard brick—the designer will have to make special scales and tables from measurements of the actual brick and joint to be used.

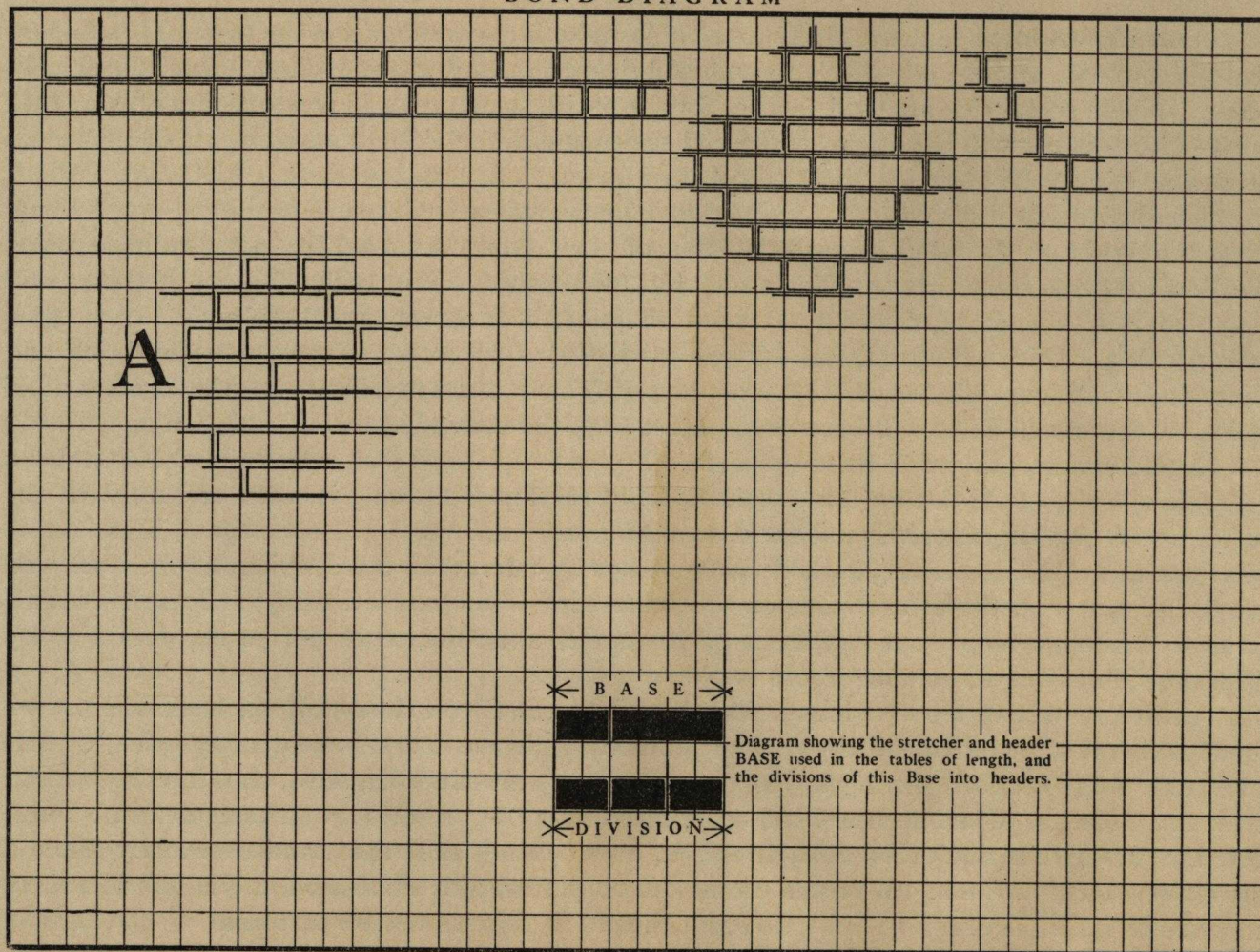
The designer will discover many additional uses for these Scales, such as finding proportional parts not shown on the usual architect's scales of 1-8", 1-4", 1-2", 3-4", etc. For example, using the Vertical Scale of 2 1-2" for brick and joint, four divisions on a scale of 1-4" to the foot will equal 10"; on a scale of 2 5-8" for brick and joint, four divisions will equal 10 1-2"; on a 2 3-4" scale for brick and joint, four divisions will equal 11"; on a 2 7-8" scale for brick and joint, four divisions will equal 11 1-2"—any of which are convenient for the laying out of stairs. Other special uses will become apparent with the continued use of these Scales.

Should ornamental brick bond or pattern be contemplated in the structure, the contractor must always be furnished with large scale detail of the bond, showing its start and finish at the bottom, top, and angles of the wall, and on pier corners and jambs of openings. These Scales may be readily used in making such detail drawings by taking the Scale which fits the brick and joint; and, since the Scales are made on the basis of 1-4" to the foot, using, in case 1-2" scale detail is desired, every second division of the same, and in case of 3-4" scale detail, every third division of the same, and so on.

A careful study of the booklet on "Bonds and Mortars" will show that the basis of most ornamental bond is the shifting of the vertical joint in successive courses one-quarter brick, or half the width of the header. Owing to the lack of proper scales and diagrams, showing the method of bonding, the use of ornamental bond and pattern has been laborious and tedious to the architect, but with these additional tools it should become easy and rapid, and eventually make a fine art of the use of brick. With the proper drawings furnished the mason, it will be but a short time before skilled artisans will be able economically to lay the desired patterns.



# BOND DIAGRAM





The accompanying Bond Diagram shows an accurate and easy way of laying out brick bond of any character. The architect should make such a working diagram, with enough of the bond shown to illustrate correctly the start and finish of the wall and piers, and how the necessary openings cut into the pattern. By the use of this sheet, the openings may be shifted and adjusted under the tracing cloth or paper so that the entire surface may be covered by pattern without awkwardness or complication. Diagonal patterns should, as far as possible, center in the total width of the wall, so that each edge finishes in the same manner. All diagonal patterns, it should be carefully noted, require an odd number of vertical courses which should be preserved, especially when contained in horizontal borders, as in panels, etc.

To make this diagram, lay off on the base, with the proper Horizontal Scale, points one-quarter brick apart, and erect at these points vertical lines of the required length. Then draw horizontal lines across them, parallel to the base, at intervals determined by the division on the proper Vertical Scale. These lines will then represent the centres of the joints, and by referring to the Diagrams in "Bonds and Mortars," the desired bond or pattern may be selected and readily laid out. It will be less confusing to lay out first the entire pattern, or repeat, either in a vertical or horizontal direction across the entire sheet, and then fill in on each side of it; and if bond units are used, to lay out the diagonal borders before filling in the units. While strictly considered, the Bond Diagram shows these lines as the centers of the vertical and horizontal joints, it is much more convenient in practice to use the horizontal lines as representing the tops of the joints, laying out the width of the joints below, and the vertical lines as the left-hand sides of the joints, laying out the width of the joints at the right (see Sketch A on the Bond Diagram).

The use of the Scales, in connection with the Bond Diagram, will make the preparation of working drawings rapid and easy; the use of the Tables of Lengths and Heights will produce accurate work; and a combination of the two will give results in artistic brickwork that will be a pleasure to the designer, materially increase his reputation with the public, and gain the respect of the builder—all of which are well worth the slight effort necessary to obtain them.



TABLE OF HEIGHTS AT 2 1-2" FOR ONE BRICK AND ONE JOINT

Number of Brick		Number of Brick		Number of Brick		Number of Brick		Number of Brick	
1	2 1-2"	33	6'-10 1-2"	65	13'- 6 1-2"	97	20'- 2 1-2"	129	26'-10 1-2"
2	5"	34	7'- 1"	66	13'- 9"	98	20'- 5"	130	27'- 1"
3	7 1-2"	35	7'- 3 1-2"	67	13'-11 1-2"	99	20'- 7 1-2"	131	27'- 3 1-2"
4	10"	36	7'- 6"	68	14'- 2"	100	20'-10"	132	27'- 6"
5	1' 0 1-2"	37	7'- 8 1-2"	69	14'- 4 1-2"	101	21'- 0 1-2"	133	27'- 8 1-2"
6	1' 3"	38	7'-11"	70	14'- 7"	102	21'- 3"	134	27'-11"
7	1' 5 1-2"	39	8'- 1 1-2"	71	14'- 9 1-2"	103	21'- 5 1-2"	135	28'- 1 1-2"
8	1' 8"	40	8'- 4"	72	15'- 0"	104	21'- 8"	136	28'- 4"
9	1'-10 1-2"	41	8'- 6 1-2"	73	15'- 2 1-2"	105	21'-10 1-2"	137	28'- 6 1-2"
10	2'- 1"	42	8'- 9"	74	15'- 5"	106	22'- 1"	138	28'- 9"
11	2'- 3 1-2"	43	8'-11 1-2"	75	15'- 7 1-2"	107	22'- 3 1-2"	139	28'-11 1-2"
12	2'- 6"	44	9'- 2"	76	15'-10"	108	22'- 6"	140	29'- 2"
13	2'- 8 1-2"	45	9'- 4 1-2"	77	16'- 0 1-2"	109	22'- 8 1-2"	141	29'- 4 1-2"
14	2'-11"	46	9'- 7"	78	16'- 3"	110	22'-11"	142	29'- 7"
15	3'- 1 1-2"	47	9'- 9 1-2"	79	16'- 5 1-2"	111	23'- 1 1-2"	143	29'- 9 1-2"
16	3'- 4"	48	10'- 0"	80	16'- 8"	112	23'- 4"	144	30'- 0"
17	3'- 6 1-2"	49	10'- 2 1-2"	81	16'-10 1-2"	113	23'- 6 1-2"	145	30'- 2 1-2"
18	3'- 9"	50	10'- 5"	82	17'- 1"	114	23'- 9"	146	30'- 5"
19	3'-11 1-2"	51	10'- 7 1-2"	83	17'- 3 1-2"	115	23'-11 1-2"	147	30'- 7 1-2"
20	4'- 2"	52	10'-10"	84	17'- 6"	116	24'- 2"	148	30'-10"
21	4'- 4 1-2"	53	11'- 0 1-2"	85	17'- 8 1-2"	117	24'- 4 1-2"	149	31'- 0 1-2"
22	4'- 7"	54	11'- 3"	86	17'-11"	118	24'- 7"	150	31'- 3"
23	4'- 9 1-2"	55	11'- 5 1-2"	87	18'- 1 1-2"	119	24'- 9 1-2"	151	31'- 5 1-2"
24	5'- 0"	56	11'- 8"	88	18'- 4"	120	25'- 0"	152	31'- 8"
25	5'- 2 1-2"	57	11'-10 1-2"	89	18'- 6 1-2"	121	25'- 2 1-2"	153	31'-10 1-2"
26	5'- 5"	58	12'- 1"	90	18'- 9"	122	25'- 5"	154	32'- 1"
27	5'- 7 1-2"	59	12'- 3 1-2"	91	18'-11 1-2"	123	25'- 7 1-2"	155	32'- 3 1-2"
28	5'-10"	60	12'- 6"	92	19'- 2"	124	25'-10"	156	32'- 6"
29	6'- 0 1-2"	61	12'- 8 1-2"	93	19'- 4 1-2"	125	26'- 0 1-2"	157	32'- 8 1-2"
30	6'- 3"	62	12'-11"	94	19'- 7"	126	26'- 3"	158	32'-11"
31	6'- 5 1-2"	63	13'- 1 1-2"	95	19'- 9 1-2"	127	26'- 5 1-2"	159	33'- 1 1-2"
32	6'- 8"	64	13'- 4"	96	20'- 0"	128	26'- 8"	160	33'- 4"



TABLE OF HEIGHTS AT 2 1-2" FOR ONE BRICK AND ONE JOINT

Number of Brick		Number of Brick		Number of Brick		Number of Brick		Number of Brick		Number of Brick	
161	33'- 6 1-2"	193	40'- 2 1-2"	225	46'-10 1-2"	257	53'- 6 1-2"	289	60'- 2 1-2"		
162	33'- 9"	194	40'- 5"	226	47'- 1"	258	53'- 9"	290	60'- 5"		
163	33'-11 1-2"	195	40'- 7 1-2"	227	47'- 3 1-2"	259	53'-11 1-2"	291	60'- 7 1-2"		
164	34'- 2"	196	40'-10"	228	47'- 6"	260	54'- 2"	292	60'-10"		
165	34'- 4 1-2"	197	41'- 0 1-2"	229	47'- 8 1-2"	261	54'- 4 1-2"	293	61'- 0 1-2"		
166	34'- 7"	198	41'- 3"	230	47'-11"	262	54'- 7"	294	61'- 3"		
167	34'- 9 1-2"	199	41'- 5 1-2"	231	48'- 1 1-2"	263	54'- 9 1-2"	295	61'- 5 1-2"		
168	35'- 0"	200	41'- 8"	232	48'- 4"	264	55'- 0"	296	61'- 8"		
169	35'- 2 1-2"	201	41'-10 1-2"	233	48'- 6 1-2"	265	55'- 2 1-2"	297	61'-10 1-2"		
170	35'- 5"	202	42'- 1"	234	48'- 9"	266	55'- 5"	298	62'- 1"		
171	35'- 7 1-2"	203	42'- 3 1-2"	235	48'-11 1-2"	267	55'- 7 1-2"	299	62'- 3 1-2"		
172	35'-10"	204	42'- 6"	236	49'- 2"	268	55'-10"	300	62'- 6"		
173	36'- 0 1-2"	205	42'- 8 1-2"	237	49'- 4 1-2"	269	56'- 0 1-2"	301	62'- 8 1-2"		
174	36'- 3"	206	42'-11"	238	49'- 7"	270	56'- 3"	302	62'-11"		
175	36'- 5 1-2"	207	43'- 1 1-2"	239	49'- 9 1-2"	271	56'- 5 1-2"	303	63'- 1 1-2"		
176	36'- 8"	208	43'- 4"	240	50'- 0"	272	56'- 8"	304	63'- 4"		
177	36'-10 1-2"	209	43'- 6 1-2"	241	50'- 2 1-2"	273	56'-10 1-2"	305	63'- 6 1-2"		
178	37'- 1"	210	43'- 9"	242	50'- 5"	274	57'- 1"	306	63'- 9"		
179	37'- 3 1-2"	211	43'-11 1-2"	243	50'- 7 1-2"	275	57'- 3 1-2"	307	63'-11 1-2"		
180	37'- 6"	212	44'- 2"	244	50'-10"	276	57'- 6"	308	64'- 2"		
181	37'- 8 1-2"	213	44'- 4 1-2"	245	51'- 0 1-2"	277	57'- 8 1-2"	309	64'- 4 1-2"		
182	37'-11"	214	44'- 7"	246	51'- 3"	278	57'-11"	310	64'- 7"		
183	38'- 1 1-2"	215	44'- 9 1-2"	247	51'- 5 1-2"	279	58'- 1 1-2"	311	64'- 9 1-2"		
184	38'- 4"	216	45'- 0"	248	51'- 8"	280	58'- 4"	312	65'- 0"		
185	38'- 6 1-2"	217	45'- 2 1-2"	249	51'-10 1-2"	281	58'- 6 1-2"	313	65'- 2 1-2"		
186	38'- 9"	218	45'- 5"	250	52'- 1"	282	58'- 9"	314	65'- 5"		
187	38'-11 1-2"	219	45'- 7 1-2"	251	52'- 3 1-2"	283	58'-11 1-2"	315	65'- 7 1-2"		
188	39'- 2"	220	45'-10"	252	52'- 6"	284	59'- 2"	316	65'-10"		
189	39'- 4 1-2"	221	46'- 0 1-2"	253	52'- 8 1-2"	285	59'- 4 1-2"	317	66'- 0 1-2"		
190	39'- 7"	222	46'- 3"	254	52'-11"	286	59'- 7"	318	66'- 3"		
191	39'- 9 1-2"	223	46'- 5 1-2"	255	53'- 1 1-2"	287	59'- 9 1-2"	319	66'- 5 1-2"		
192	40'- 0"	224	46'- 8"	256	53'- 4"	288	60'- 0"	320	66'- 8"		



TABLE OF HEIGHTS AT 2 5-8" FOR ONE BRICK AND ONE JOINT

Number of Brick		Number of Brick		Number of Brick		Number of Brick		Number of Brick	
1	2 5-8"	33	7'- 2 5-8"	65	14'- 2 5-8"	97	21'- 2 5-8"	129	28'- 2 5-8"
2	5 1-4"	34	7'- 5 1-4"	66	14'- 5 1-4"	98	21'- 5 1-4"	130	28'- 5 1-4"
3	7 7-8"	35	7'- 7 7-8"	67	14'- 7 7-8"	99	21'- 7 7-8"	131	28'- 7 7-8"
4	10 1-2"	36	7'-10 1-2"	68	14'-10 1-2"	100	21'-10 1-2"	132	28'-10 1-2"
5	1'- 1 1-8"	37	8'- 1 1-8"	69	15'- 1 1-8"	101	22'- 1 1-8"	133	29'- 1 1-8"
6	1'- 3 3-4"	38	8'- 3 3-4"	70	15'- 3 3-4"	102	22'- 3 3-4"	134	29'- 3 3-4"
7	1'- 6 3-8"	39	8'- 6 3-8"	71	15'- 6 3-8"	103	22'- 6 3-8"	135	29'- 6 3-8"
8	1'- 9"	40	8'- 9"	72	15'- 9"	104	22'- 9"	136	29'- 9"
9	1'-11 5-8"	41	8'-11 5-8"	73	15'-11 5-8"	105	22'-11 5-8"	137	29'-11 5-8"
10	2'- 2 1-4"	42	9'- 2 1-4"	74	16'- 2 1-4"	106	23'- 2 1-4"	138	30'- 2 1-4"
11	2'- 4 7-8"	43	9'- 4 7-8"	75	16'- 4 7-8"	107	23'- 4 7-8"	139	30'- 4 7-8"
12	2'- 7 1-2"	44	9'- 7 1-2"	76	16'- 7 1-2"	108	23'- 7 1-2"	140	30'- 7 1-2"
13	2'-10 1-8"	45	9'-10 1-8"	77	16'-10 1-8"	109	23'-10 1-8"	141	30'-10 1-8"
14	3'- 0 3-4"	46	10'- 0 3-4"	78	17'- 0 3-4"	110	24'- 0 3-4"	142	31'- 0 3-4"
15	3'- 3 3-8"	47	10'- 3 3-8"	79	17'- 3 3-8"	111	24'- 3 3-8"	143	31'- 3 3-8"
16	3'- 6"	48	10'- 6"	80	17'- 6"	112	24'- 6"	144	31'- 6"
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26	5'- 8 1-4"	58	12'- 8 1-4"	90	19'- 8 1-4"	122	26'- 8 1-4"	154	33'- 8 1-4"
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31	6'- 9 3-8"	63	13'- 9 3-8"	95	20'- 9 3-8"	127	27'- 9 3-8"	159	34'- 9 3-8"
32	7'- 0"	64	14'- 0"	96	21'- 0"	128	28'- 0"	160	35'- 0"



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169	36'-11 5-8"	201	43'-11 5-8"	233	50'-11 5-8"	265	57'-11 5-8"	297	64'-11 5-8"
170	37'- 2 1-4"	202	44'- 2 1-4"	234	51'- 2 1-4"	266	58'- 2 1-4"	298	65'- 2 1-4"
171	37'- 4 7-8"	203	44'- 4 7-8"	235	51'- 4 7-8"	267	58'- 4 7-8"	299	65'- 4 7-8"
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173	37'-10 1-8"	205	44'-10 1-8"	237	51'-10 1-8"	269	58'-10 1-8"	301	65'-10 1-8"
174	38'- 0 3-4"	206	45'- 0 3-4"	238	52'- 0 3-4"	270	59'- 0 3-4"	302	66'- 0 3-4"
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180	39'- 4 1-2"	212	46'- 4 1-2"	244	53'- 4 1-2"	276	60'- 4 1-2"	308	67'- 4 1-2"
181	39'- 7 1-8"	213	46'- 7 1-8"	245	53'- 7 1-8"	277	60'- 7 1-8"	309	67'- 7 1-8"
182	39'- 9 3-4"	214	46'- 9 3-4"	246	53'- 9 3-4"	278	60'- 9 3-4"	310	67'- 9 3-4"
183	40'- 0 3-8"	215	47'- 0 3-8"	247	54'- 0 3-8"	279	61'- 0 3-8"	311	68'- 0 3-8"
184	40'- 3"	216	47'- 3"	248	54'- 3"	280	61'- 3"	312	68'- 3"
185	40'- 5 5-8"	217	47'- 5 5-8"	249	54'- 5 5-8"	281	61'- 5 5-8"	313	68'- 5 5-8"
186	40'- 8 1-4"	218	47'- 8 1-4"	250	54'- 8 1-4"	282	61'- 8 1-4"	314	68'- 8 1-4"
187	40'-10 7-8"	219	47'-10 7-8"	251	54'-10 7-8"	283	61'-10 7-8"	315	68'-10 7-8"
188	41'- 1 1-2"	220	48'- 1 1-2"	252	55'- 1 1-2"	284	62'- 1 1-2"	316	69'- 1 1-2"
189	41'- 4 1-8"	221	48'- 4 1-8"	253	55'- 4 1-8"	285	62'- 4 1-8"	317	69'- 4 1-8"
190	41'- 6 3-4"	222	48'- 6 3-4"	254	55'- 6 3-4"	286	62'- 6 3-4"	318	69'- 6 3-4"
191	41'- 9 3-8"	223	48'- 9 3-8"	255	55'- 9 3-8"	287	62'- 9 3-8"	319	69'- 9 3-8"
192	42'- 0"	224	49'- 0"	256	56'- 0"	288	63'- 0"	320	70'- 0"



TABLE OF HEIGHTS AT 2 3-4" FOR ONE BRICK AND ONE JOINT

Number of Brick		Number of Brick		Number of Brick		Number of Brick		Number of Brick	
1	2 3-4"	33	7'- 6 3-4"	65	14'-10 3-4"	97	22'- 2 3-4"	129	29'- 6 3-4"
2	5 1-2"	34	7'- 9 1-2"	66	15'- 1 1-2"	98	22'- 5 1-2"	130	29'- 9 1-2"
3	8 1-4"	35	8'- 0 1-4"	67	15'- 4 1-4"	99	22'- 8 1-4"	131	30'- 0 1-4"
4	11"	36	8'- 3"	68	15'- 7"	100	22'- 11"	132	30'- 3"
5	1'- 1 3-4"	37	8'- 5 3-4"	69	15'- 9 3-4"	101	23'- 1 3-4"	133	30'- 5 3-4"
6	1'- 4 1-2"	38	8'- 8 1-2"	70	16'- 0 1-2"	102	23'- 4 1-2"	134	30'- 8 1-2"
7	1'- 7 1-4"	39	8'-11 1-4"	71	16'- 3 1-4"	103	23'- 7 1-4"	135	30'-11 1-4"
8	1'-10"	40	9'- 2"	72	16'- 6"	104	23'-10"	136	31'- 2"
9	2'- 0 3-4"	41	9'- 4 3-4"	73	16'- 8 3-4"	105	24'- 0 3-4"	137	31'- 4 3-4"
10	2'- 3 1-2"	42	9'- 7 1-2"	74	16'-11 1-2"	106	24'- 3 1-2"	138	31'- 7 1-2"
11	2'- 6 1-4"	43	9'-10 1-4"	75	17'- 2 1-4"	107	24'- 6 1-4"	139	31'-10 1-4"
12	2'- 9"	44	10'- 1"	76	17'- 5"	108	24'- 9"	140	32'- 1"
13	2'-11 3-4"	45	10'- 3 3-4"	77	17'- 7 3-4"	109	24'-11 3-4"	141	32'- 3 3-4"
14	3'- 2 1-2"	46	10'- 6 1-2"	78	17'-10 1-2"	110	25'- 2 1-2"	142	32'- 6 1-2"
15	3'- 5 1-4"	47	10'- 9 1-4"	79	18'- 1 1-4"	111	25'- 5 1-4"	143	32'- 9 1-4"
16	3'- 8"	48	11'- 0"	80	18'- 4"	112	25'- 8"	144	33'- 0"
17	3'-10 3-4"	49	11'- 2 3-4"	81	18'- 6 3-4"	113	25'-10 3-4"	145	33'- 2 3-4"
18	4'- 1 1-2"	50	11'- 5 1-2"	82	18'- 9 1-2"	114	26'- 1 1-2"	146	33'- 5 1-2"
19	4'- 4 1-4"	51	11'- 8 1-4"	83	19'- 0 1-4"	115	26'- 4 1-4"	147	33'- 8 1-4"
20	4'- 7"	52	11'- 11"	84	19'- 3"	116	26'- 7"	148	33'-11"
21	4'- 9 3-4"	53	12'- 1 3-4"	85	19'- 5 3-4"	117	26'- 9 3-4"	149	34'- 1 3-4"
22	5'- 0 1-2"	54	12'- 4 1-2"	86	19'- 8 1-2"	118	27'- 0 1-2"	150	34'- 4 1-2"
23	5'- 3 1-4"	55	12'- 7 1-4"	87	19'-11 1-4"	119	27'- 3 1-4"	151	34'- 7 1-4"
24	5'- 6"	56	12'-10"	88	20'- 2"	120	27'- 6"	152	34'-10"
25	5'- 8 3-4"	57	13'- 0 3-4"	89	20'- 4 3-4"	121	27'- 8 3-4"	153	35'- 0 3-4"
26	5'-11 1-2"	58	13'- 3 1-2"	90	20'- 7 1-2"	122	27'-11 1-2"	154	35'- 3 1-2"
27	6'- 2 1-4"	59	13'- 6 1-4"	91	20'-10 1-4"	123	28'- 2 1-4"	155	35'- 6 1-4"
28	6'- 5"	60	13'- 9"	92	21'- 1"	124	28'- 5"	156	35'- 9"
29	6'- 7 3-4"	61	13'-11 3-4"	93	21'- 3 3-4"	125	28'- 7 3-4"	157	35'-11 3-4"
30	6'-10 1-2"	62	14'- 2 1-2"	94	21'- 6 1-2"	126	28'-10 1-2"	158	36'- 2 1-2"
31	7'- 1 1-4"	63	14'- 5 1-4"	95	21'- 9 1-4"	127	29'- 1 1-4"	159	36'- 5 1-4"
32	7'- 4"	64	14'- 8"	96	22'- 0"	128	29'- 4"	160	36'- 8"



TABLE OF HEIGHTS AT 2 3-4" FOR ONE BRICK AND ONE JOINT

Number of Brick		Number of Brick		Number of Brick		Number of Brick		Number of Brick		Number of Brick	
161	36'-10 3-4"	193	44'- 2 3-4"	225	51'- 6 3-4"	257	58'-10 3-4"	289	66'- 2 3-4"		
162	37'- 1 1-2"	194	44'- 5 1-2"	226	51'- 9 1-2"	258	59'- 1 1-2"	290	66'- 5 1-2"		
163	37'- 4 1-4"	195	44'- 8 1-4"	227	52'- 0 1-4"	259	59'- 4 1-4"	291	66'- 8 1-4"		
164	37'- 7"	196	44'-11"	228	52'- 3"	260	59'- 7"	292	66'-11"		
165	37'- 9 3-4"	197	45'- 1 3-4"	229	52'- 5 3-4"	261	59'- 9 3-4"	293	67'- 1 3-4"		
166	38'- 0 1-2"	198	45'- 4 1-2"	230	52'- 8 1-2"	262	60'- 0 1-2"	294	67'- 4 1-2"		
167	38'- 3 1-4"	199	45'- 7 1-4"	231	52'-11 1-4"	263	60'- 3 1-4"	295	67'- 7 1-4"		
168	38'- 6"	200	45'-10"	232	53'- 2"	264	60'- 6"	296	67'-10"		
169	38'- 8 3-4"	201	46'- 0 3-4"	233	53'- 4 3-4"	265	60'- 8 3-4"	297	68'- 0 3-4"		
170	38'-11 1-2"	202	46'- 3 1-2"	234	53'- 7 1-2"	266	60'-11 1-2"	298	68'- 3 1-2"		
171	39'- 2 1-4"	203	46'- 6 1-4"	235	53'-10 1-4"	267	61'- 2 1-4"	299	68'- 6 1-4"		
172	39'- 5"	204	46'- 9"	236	54'- 1"	268	61'- 5"	300	68'- 9"		
173	39'- 7 3-4"	205	46'-11 3-4"	237	54'- 3 3-4"	269	61'- 7 3-4"	301	68'-11 3-4"		
174	39'-10 1-2"	206	47'- 2 1-2"	238	54'- 6 1-2"	270	61'-10 1-2"	302	69'- 2 1-2"		
175	40'- 1 1-4"	207	47'- 5 1-4"	239	54'- 9 1-4"	271	62'- 1 1-4"	303	69'- 5 1-4"		
176	40'- 4"	208	47'- 8"	240	55'- 0"	272	62'- 4"	304	69'- 8"		
177	40'- 6 3-4"	209	47'-10 3-4"	241	55'- 2 3-4"	273	62'- 6 3-4"	305	69'-10 3-4"		
178	40'- 9 1-2"	210	48'- 1 1-2"	242	55'- 5 1-2"	274	62'- 9 1-2"	306	70'- 1 1-2"		
179	41'- 0 1-4"	211	48'- 4 1-4"	243	55'- 8 1-4"	275	63'- 0 1-4"	307	70'- 4 1-4"		
180	41'- 3"	212	48'- 7"	244	55'-11"	276	63'- 3"	308	70'- 7"		
181	41'- 5 3-4"	213	48'- 9 3-4"	245	56'- 1 3-4"	277	63'- 5 3-4"	309	70'- 9 3-4"		
182	41'- 8 1-2"	214	49'- 0 1-2"	246	56'- 4 1-2"	278	63'- 8 1-2"	310	71'- 0 1-2"		
183	41'-11 1-4"	215	49'- 3 1-4"	247	56'- 7 1-4"	279	63'-11 1-4"	311	71'- 3 1-4"		
184	42'- 2"	216	49'- 6"	248	56'-10"	280	64'- 2"	312	71'- 6"		
185	42'- 4 3-4"	217	49'- 8 3-4"	249	57'- 0 3-4"	281	64'- 4 3-4"	313	71'- 8 3-4"		
186	42'- 7 1-2"	218	49'-11 1-2"	250	57'- 3 1-2"	282	64'- 7 1-2"	314	71'-11 1-2"		
187	42'-10 1-4"	219	50'- 2 1-4"	251	57'- 6 1-4"	283	64'-10 1-4"	315	72'- 2 1-4"		
188	43'- 1"	220	50'- 5"	252	57'- 9"	284	65'- 1"	316	72'- 5"		
189	43'- 3 3-4"	221	50'- 7 3-4"	253	57'-11 3-4"	285	65'- 3 3-4"	317	72'- 7 3-4"		
190	43'- 6 1-2"	222	50'-10 1-2"	254	58'- 2 1-2"	286	65'- 6 1-2"	318	72'-10 1-2"		
191	43'- 9 1-4"	223	51'- 1 1-4"	255	58'- 5 1-4"	287	65'- 9 1-4"	319	73'- 1 1-4"		
192	44'- 0"	224	51'- 4"	256	58'- 8"	288	66'- 0"	320	73'- 4"		



TABLE OF HEIGHTS AT 2 7-8" FOR ONE BRICK AND ONE JOINT

Number of Brick		Number of Brick		Number of Brick		Number of Brick		Number of Brick	
1	2 7-8"	33	7'-10 7-8"	65	15'- 6 7-8"	97	23'- 2 7-8"	129	30'-10 7-8"
2	5 3-4"	34	8'- 1 3-4"	66	15'- 9 3-4"	98	23'- 5 3-4"	130	31'- 1 3-4"
3	8 5-8"	35	8'- 4 5-8"	67	16'- 0 5-8"	99	23'- 8 5-8"	131	31'- 4 5-8"
4	11 1-2"	36	8'- 7 1-2"	68	16'- 3 1-2"	100	23'-11 1-2"	132	31'- 7 1-2"
5	1'- 2 3-8"	37	8'-10 3-8"	69	16'- 6 3-8"	101	24'- 2 3-8"	133	31'-10 3-8"
6	1'- 5 1-4"	38	9'- 1 1-4"	70	16'- 9 1-4"	102	24'- 5 1-4"	134	32'- 1 1-4"
7	1'- 8 1-8"	39	9'- 4 1-8"	71	17'- 0 1-8"	103	24'- 8 1-8"	135	32'- 4 1-8"
8	1'-11"	40	9'- 7"	72	17'- 3"	104	24'- 11"	136	32'- 7"
9	2'- 1 7-8"	41	9'- 9 7-8"	73	17'- 5 7-8"	105	25'- 1 7-8"	137	32'- 9 7-8"
10	2'- 4 3-4"	42	10'- 0 3-4"	74	17'- 8 3-4"	106	25'- 4 3-4"	138	33'- 0 3-4"
11	2'- 7 5-8"	43	10'- 3 5-8"	75	17'-11 5-8"	107	25'- 7 5-8"	139	33'- 3 5-8"
12	2'-10 1-2"	44	10'- 6 1-2"	76	18'- 2 1-2"	108	25'-10 1-2"	140	33'- 6 1-2"
13	3'- 1 3-8"	45	10'- 9 3-8"	77	18'- 5 3-8"	109	26'- 1 3-8"	141	33'- 9 3-8"
14	3'- 4 1-4"	46	11'- 0 1-4"	78	18'- 8 1-4"	110	26'- 4 1-4"	142	34'- 0 1-4"
15	3'- 7 1-8"	47	11'- 3 1-8"	79	18'-11 1-8"	111	26'- 7 1-8"	143	34'- 3 1-8"
16	3'-10"	48	11'- 6"	80	19'- 2"	112	26'-10"	144	34'- 6"
17	4'- 0 7-8"	49	11'- 8 7-8"	81	19'- 4 7-8"	113	27'- 0 7-8"	145	34'- 8 7-8"
18	4'- 3 3-4"	50	11'-11 3-4"	82	19'- 7 3-4"	114	27'- 3 3-4"	146	34'-11 3-4"
19	4'- 6 5-8"	51	12'- 2 5-8"	83	19'-10 5-8"	115	27'- 6 5-8"	147	35'- 2 5-8"
20	4'- 9 1-2"	52	12'- 5 1-2"	84	20'- 1 1-2"	116	27'- 9 1-2"	148	35'- 5 1-2"
21	5'- 0 3-8"	53	12'- 8 3-8"	85	20'- 4 3-8"	117	28'- 0 3-8"	149	35'- 8 3-8"
22	5'- 3 1-4"	54	12'-11 1-4"	86	20'- 7 1-4"	118	28'- 3 1-4"	150	35'-11 1-4"
23	5'- 6 1-8"	55	13'- 2 1-8"	87	20'-10 1-8"	119	28'- 6 1-8"	151	36'- 2 1-8"
24	5'- 9"	56	13'- 5"	88	21'- 1"	120	28'- 9"	152	36'- 5"
25	5'-11 7-8"	57	13'- 7 7-8"	89	21'- 3 7-8"	121	28'-11 7-8"	153	36'- 7 7-8"
26	6'- 2 3-4"	58	13'-10 3-4"	90	21'- 6 3-4"	122	29'- 2 3-4"	154	36'-10 3-4"
27	6'- 5 5-8"	59	14'- 1 5-8"	91	21'- 9 5-8"	123	29'- 5 5-8"	155	37'- 1 5-8"
28	6'- 8 1-2"	60	14'- 4 1-2"	92	22'- 0 1-2"	124	29'- 8 1-2"	156	37'- 4 1-2"
29	6'-11 3-8"	61	14'- 7 3-8"	93	22'- 3 3-8"	125	29'-11 3-8"	157	37'- 7 3-8"
30	7'- 2 1-4"	62	14'-10 1-4"	94	22'- 6 1-4"	126	30'- 2 1-4"	158	37'-10 1-4"
31	7'- 5 1-8"	63	15'- 1 1-8"	95	22'- 9 1-8"	127	30'- 5 1-8"	159	38'- 1 1-8"
32	7'- 8"	64	15'- 4"	96	23'- 0"	128	30'- 8"	160	38'- 4"



TABLE OF HEIGHTS AT 2 7-8" FOR ONE BRICK AND ONE JOINT

Number of Brick		Number of Brick		Number of Brick		Number of Brick		Number of Brick		Number of Brick	
161	38'- 6 7-8"	193	46'- 2 7-8"	225	53'-10 7-8"	257	61'- 6 7-8"	289	69'- 2 7-8"		
162	38'- 9 3-4"	194	46'- 5 3-4"	226	54'- 1 3-4"	258	61'- 9 3-4"	290	69'- 5 3-4"		
163	39'- 0 5-8"	195	46'- 8 5-8"	227	54'- 4 5-8"	259	62'- 0 5-8"	291	69'- 8 5-8"		
164	39'- 3 1-2"	196	46'-11 1-2"	228	54'- 7 1-2"	260	62'- 3 1-2"	292	69'-11 1-2"		
165	39'- 6 3-8"	197	47'- 2 3-8"	229	54'-10 3-8"	261	62'- 6 3-8"	293	70'- 2 3-8"		
166	39'- 9 1-4"	198	47'- 5 1-4"	230	55'- 1 1-4"	262	62'- 9 1-4"	294	70'- 5 1-4"		
167	40'- 0 1-8"	199	47'- 8 1-8"	231	55'- 4 1-8"	263	63'- 0 1-8"	295	70'- 8 1-8"		
168	40'- 3"	200	47'-11"	232	55'- 7"	264	63'- 3"	296	70'-11"		
169	40'- 5 7-8"	201	48'- 1 7-8"	233	55'- 9 7-8"	265	63'- 5 7-8"	297	71'- 1 7-8"		
170	40'- 8 3-4"	202	48'- 4 3-4"	234	56'- 0 3-4"	266	63'- 8 3-4"	298	71'- 4 3-4"		
171	40'-11 5-8"	203	48'- 7 5-8"	235	56'- 3 5-8"	267	63'-11 5-8"	299	71'- 7 5-8"		
172	41'- 2 1-2"	204	48'-10 1-2"	236	56'- 6 1-2"	268	64'- 2 1-2"	300	71'-10 1-2"		
173	41'- 5 3-8"	205	49'- 1 3-8"	237	56'- 9 3-8"	269	64'- 5 3-8"	301	72'- 1 3-8"		
174	41'- 8 1-4"	206	49'- 4 1-4"	238	57'- 0 1-4"	270	64'- 8 1-4"	302	72'- 4 1-4"		
175	41'-11 1-8"	207	49'- 7 1-8"	239	57'- 3 1-8"	271	64'-11 1-8"	303	72'- 7 1-8"		
176	42'- 2"	208	49'-10"	240	57'- 6"	272	65'- 2"	304	72'-10"		
177	42'- 4 7-8"	209	50'- 0 7-8"	241	57'- 8 7-8"	273	65'- 4 7-8"	305	73'- 0 7-8"		
178	42'- 7 3-4"	210	50'- 3 3-4"	242	57'-11 3-4"	274	65'- 7 3-4"	306	73'- 3 3-4"		
179	42'-10 5-8"	211	50'- 6 5-8"	243	58'- 2 5-8"	275	65'-10 5-8"	307	73'- 6 5-8"		
180	43'- 1 1-2"	212	50'- 9 1-2"	244	58'- 5 1-2"	276	66'- 1 1-2"	308	73'- 9 1-2"		
181	43'- 4 3-8"	213	51'- 0 3-8"	245	58'- 8 3-8"	277	66'- 4 3-8"	309	74'- 0 3-8"		
182	43'- 7 1-4"	214	51'- 3 1-4"	246	58'-11 1-4"	278	66'- 7 1-4"	310	74'- 3 1-4"		
183	43'-10 1-8"	215	51'- 6 1-8"	247	59'- 2 1-8"	279	66'-10 1-8"	311	74'- 6 1-8"		
184	44'- 1"	216	51'- 9"	248	59'- 5"	280	67'- 1"	312	74'- 9"		
185	44'- 3 7-8"	217	51'-11 7-8"	249	59'- 7 7-8"	281	67'- 3 7-8"	313	74'-11 7-8"		
186	44'- 6 3-4"	218	52'- 2 3-4"	250	59'-10 3-4"	282	67'- 6 3-4"	314	75'- 2 3-4"		
187	44'- 9 5-8"	219	52'- 5 5-8"	251	60'- 1 5-8"	283	67'- 9 5-8"	315	75'- 5 5-8"		
188	45'- 0 1-2"	220	52'- 8 1-2"	252	60'- 4 1-2"	284	68'- 0 1-2"	316	75'- 8 1-2"		
189	45'- 3 3-8"	221	52'-11 3-8"	253	60'- 7 3-8"	285	68'- 3 3-8"	317	75'-11 3-8"		
190	45'- 6 1-4"	222	53'- 2 1-4"	254	60'-10 1-4"	286	68'- 6 1-4"	318	76'- 2 1-4"		
191	45'- 9 1-8"	223	53'- 5 1-8"	255	61'- 1 1-8"	287	68'- 9 1-8"	319	76'- 5 1-8"		
192	46'- 0"	224	53'- 8"	256	61'- 4"	288	69'- 0"	320	76'- 8"		



TABLE OF HEIGHTS AT 3" FOR ONE BRICK AND ONE JOINT

Number of Brick		Number of Brick		Number of Brick		Number of Brick		Number of Brick	
1	3"	33	8'- 3"	65	16'- 3"	97	24'- 3"	129	32'- 3"
2	6"	34	8'- 6"	66	16'- 6"	98	24'- 6"	130	32'- 6"
3	9"	35	8'- 9"	67	16'- 9"	99	24'- 9"	131	32'- 9"
4	1'- 0"	36	9'- 0"	68	17'- 0"	100	25'- 0"	132	33'- 0"
5	1'- 3"	37	9'- 3"	69	17'- 3"	101	25'- 3"	133	33'- 3"
6	1'- 6"	38	9'- 6"	70	17'- 6"	102	25'- 6"	134	33'- 6"
7	1'- 9"	39	9'- 9"	71	17'- 9"	103	25'- 9"	135	33'- 9"
8	2'- 0"	40	10'- 0"	72	18'- 0"	104	26'- 0"	136	34'- 0"
9	2'- 3"	41	10'- 3"	73	18'- 3"	105	26'- 3"	137	34'- 3"
10	2'- 6"	42	10'- 6"	74	18'- 6"	106	26'- 6"	138	34'- 6"
11	2'- 9"	43	10'- 9"	75	18'- 9"	107	26'- 9"	139	34'- 9"
12	3'- 0"	44	11'- 0"	76	19'- 0"	108	27'- 0"	140	35'- 0"
13	3'- 3"	45	11'- 3"	77	19'- 3"	109	27'- 3"	141	35'- 3"
14	3'- 6"	46	11'- 6"	78	19'- 6"	110	27'- 6"	142	35'- 6"
15	3'- 9"	47	11'- 9"	79	19'- 9"	111	27'- 9"	143	35'- 9"
16	4'- 0"	48	12'- 0"	80	20'- 0"	112	28'- 0"	144	36'- 0"
17	4'- 3"	49	12'- 3"	81	20'- 3"	113	28'- 3"	145	36'- 3"
18	4'- 6"	50	12'- 6"	82	20'- 6"	114	28'- 6"	146	36'- 6"
19	4'- 9"	51	12'- 9"	83	20'- 9"	115	28'- 9"	147	36'- 9"
20	5'- 0"	52	13'- 0"	84	21'- 0"	116	29'- 0"	148	37'- 0"
21	5'- 3"	53	13'- 3"	85	21'- 3"	117	29'- 3"	149	37'- 3"
22	5'- 6"	54	13'- 6"	86	21'- 6"	118	29'- 6"	150	37'- 6"
23	5'- 9"	55	13'- 9"	87	21'- 9"	119	29'- 9"	151	37'- 9"
24	6'- 0"	56	14'- 0"	88	22'- 0"	120	30'- 0"	152	38'- 0"
25	6'- 3"	57	14'- 3"	89	22'- 3"	121	30'- 3"	153	38'- 3"
26	6'- 6"	58	14'- 6"	90	22'- 6"	122	30'- 6"	154	38'- 6"
27	6'- 9"	59	14'- 9"	91	22'- 9"	123	30'- 9"	155	38'- 9"
28	7'- 0"	60	15'- 0"	92	23'- 0"	124	31'- 0"	156	39'- 0"
29	7'- 3"	61	15'- 3"	93	23'- 3"	125	31'- 3"	157	39'- 3"
30	7'- 6"	62	15'- 6"	94	23'- 6"	126	31'- 6"	158	39'- 6"
31	7'- 9"	63	15'- 9"	95	23'- 9"	127	31'- 9"	159	39'- 9"
32	8'- 0"	64	16'- 0"	96	24'- 0"	128	32'- 0"	160	40'- 0"



# TABLE OF HEIGHTS AT 3" FOR ONE BRICK AND ONE JOINT

Number of Brick		Number of Brick		Number of Brick		Number of Brick		Number of Brick		Number of Brick	
161	40'- 3"	193	48'- 3"	225	56'- 3"	257	64'- 3"	289	72'- 3"		
162	40'- 6"	194	48'- 6"	226	56'- 6"	258	64'- 6"	290	72'- 6"		
163	40'- 9"	195	48'- 9"	227	56'- 9"	259	64'- 9"	291	72'- 9"		
164	41'- 0"	196	49'- 0"	228	57'- 0"	260	65'- 0"	292	73'- 0"		
165	41'- 3"	197	49'- 3"	229	57'- 3"	261	65'- 3"	293	73'- 3"		
166	41'- 6"	198	49'- 6"	230	57'- 6"	262	65'- 6"	294	73'- 6"		
167	41'- 9"	199	49'- 9"	231	57'- 9"	263	65'- 9"	295	73'- 9"		
168	42'- 0"	200	50'- 0"	232	58'- 0"	264	66'- 0"	296	74'- 0"		
169	42'- 3"	201	50'- 3"	233	58'- 3"	265	66'- 3"	297	74'- 3"		
170	42'- 6"	202	50'- 6"	234	58'- 6"	266	66'- 6"	298	74'- 6"		
171	42'- 9"	203	50'- 9"	235	58'- 9"	267	66'- 9"	299	74'- 9"		
172	43'- 0"	204	51'- 0"	236	59'- 0"	268	67'- 0"	300	75'- 0"		
173	43'- 3"	205	51'- 3"	237	59'- 3"	269	67'- 3"	301	75'- 3"		
174	43'- 6"	206	51'- 6"	238	59'- 6"	270	67'- 6"	302	75'- 6"		
175	43'- 9"	207	51'- 9"	239	59'- 9"	271	67'- 9"	303	75'- 9"		
176	44'- 0"	208	52'- 0"	240	60'- 0"	272	68'- 0"	304	76'- 0"		
177	44'- 3"	209	52'- 3"	241	60'- 3"	273	68'- 3"	305	76'- 3"		
178	44'- 6"	210	52'- 6"	242	60'- 6"	274	68'- 6"	306	76'- 6"		
179	44'- 9"	211	52'- 9"	243	60'- 9"	275	68'- 9"	307	76'- 9"		
180	45'- 0"	212	53'- 0"	244	61'- 0"	276	69'- 0"	308	77'- 0"		
181	45'- 3"	213	53'- 3"	245	61'- 3"	277	69'- 3"	309	77'- 3"		
182	45'- 6"	214	53'- 6"	246	61'- 6"	278	69'- 6"	310	77'- 6"		
183	45'- 9"	215	53'- 9"	247	61'- 9"	279	69'- 9"	311	77'- 9"		
184	46'- 0"	216	54'- 0"	248	62'- 0"	280	70'- 0"	312	78'- 0"		
185	46'- 3"	217	54'- 3"	249	62'- 3"	281	70'- 3"	313	78'- 3"		
186	46'- 6"	218	54'- 6"	250	62'- 6"	282	70'- 6"	314	78'- 6"		
187	46'- 9"	219	54'- 9"	251	62'- 9"	283	70'- 9"	315	78'- 9"		
188	47'- 0"	220	55'- 0"	252	63'- 0"	284	71'- 0"	316	79'- 0"		
189	47'- 3"	221	55'- 3"	253	63'- 3"	285	71'- 3"	317	79'- 3"		
190	47'- 6"	222	55'- 6"	254	63'- 6"	286	71'- 6"	318	79'- 6"		
191	47'- 9"	223	55'- 9"	255	63'- 9"	287	71'- 9"	319	79'- 9"		
192	48'- 0"	224	56'- 0"	256	64'- 0"	288	72'- 0"	320	80'- 0"		



TABLE OF HEIGHTS AT 3 1-8" FOR ONE BRICK AND ONE JOINT

Number of Brick		Number of Brick		Number of Brick		Number of Brick		Number of Brick	
1	3 1-8"	33	8'- 7 1-8"	65	16'-11 1-8"	97	25'- 3 1-8"	129	33'- 7 1-8"
2	6 1-4"	34	8'-10 1-4"	66	17'- 2 1-4"	98	25'- 6 1-4"	130	33'-10 1-4"
3	9 3-8"	35	9'- 1 3-8"	67	17'- 5 3-8"	99	25'- 9 3-8"	131	34'- 1 3-8"
4	1'- 0 1-2"	36	9'- 4 1-2"	68	17'- 8 1-2"	100	26'- 0 1-2"	132	34'- 4 1-2"
5	1'- 3 5-8"	37	9'- 7 5-8"	69	17'-11 5-8"	101	26'- 3 5-8"	133	34'- 7 5-8"
6	1'- 6 3-4"	38	9'-10 3-4"	70	18'- 2 3-4"	102	26'- 6 3-4"	134	34'-10 3-4"
7	1'- 9 7-8"	39	10'- 1 7-8"	71	18'- 5 7-8"	103	26'- 9 7-8"	135	35'- 1 7-8"
8	2'- 1"	40	10'- 5"	72	18'- 9"	104	27'- 1"	136	35'- 5"
9	2'- 4 1-8"	41	10'- 8 1-8"	73	19'- 0 1-8"	105	27'- 4 1-8"	137	35'- 8 1-8"
10	2'- 7 1-4"	42	10'-11 1-4"	74	19'- 3 1-4"	106	27'- 7 1-4"	138	35'-11 1-4"
11	2'-10 3-8"	43	11'- 2 3-8"	75	19'- 6 3-8"	107	27'-10 3-8"	139	36'- 2 3-8"
12	3'- 1 1-2"	44	11'- 5 1-2"	76	19'- 9 1-2"	108	28'- 1 1-2"	140	36'- 5 1-2"
13	3'- 4 5-8"	45	11'- 8 5-8"	77	20'- 0 5-8"	109	28'- 4 5-8"	141	36'- 8 5-8"
14	3'- 7 3-4"	46	11'-11 3-4"	78	20'- 3 3-4"	110	28'- 7 3-4"	142	36'-11 3-4"
15	3'-10 7-8"	47	12'- 2 7-8"	79	20'- 6 7-8"	111	28'-10 7-8"	143	37'- 2 7-8"
16	4'- 2"	48	12'- 6"	80	20'- 10"	112	29'- 2"	144	37'- 6"
17	4'- 5 1-8"	49	12'- 9 1-8"	81	21'- 1 1-8"	113	29'- 5 1-8"	145	37'- 9 1-8"
18	4'- 8 1-4"	50	13'- 0 1-4"	82	21'- 4 1-4"	114	29'- 8 1-4"	146	38'- 0 1-4"
19	4'-11 3-8"	51	13'- 3 3-8"	83	21'- 7 3-8"	115	29'-11 3-8"	147	38'- 3 3-8"
20	5'- 2 1-2"	52	13'- 6 1-2"	84	21'-10 1-2"	116	30'- 2 1-2"	148	38'- 6 1-2"
21	5'- 5 5-8"	53	13'- 9 5-8"	85	22'- 1 5-8"	117	30'- 5 5-8"	149	38'- 9 5-8"
22	5'- 8 3-4"	54	14'- 0 3-4"	86	22'- 4 3-4"	118	30'- 8 3-4"	150	39'- 0 3-4"
23	5'-11 7-8"	55	14'- 3 7-8"	87	22'- 7 7-8"	119	30'-11 7-8"	151	39'- 3 7-8"
24	6'- 3"	56	14'- 7"	88	22'-11"	120	31'- 3"	152	39'- 7"
25	6'- 6 1-8"	57	14'-10 1-8"	89	23'- 2 1-8"	121	31'- 6 1-8"	153	39'-10 1-8"
26	6'- 9 1-4"	58	15'- 1 1-4"	90	23'- 5 1-4"	122	31'- 9 1-4"	154	40'- 1 1-4"
27	7'- 0 3-8"	59	15'- 4 3-8"	91	23'- 8 3-8"	123	32'- 0 3-8"	155	40'- 4 3-8"
28	7'- 3 1-2"	60	15'- 7 1-2"	92	23'-11 1-2"	124	32'- 3 1-2"	156	40'- 7 1-2"
29	7'- 6 5-8"	61	15'-10 5-8"	93	24'- 2 5-8"	125	32'- 6 5-8"	157	40'-10 5-8"
30	7'- 9 3-4"	62	16'- 1 3-4"	94	24'- 5 3-4"	126	32'- 9 3-4"	158	41'- 1 3-4"
31	8'- 0 7-8"	63	16'- 4 7-8"	95	24'- 8 7-8"	127	33'- 0 7-8"	159	41'- 4 7-8"
32	8'- 4"	64	16'- 8"	96	25'- 0"	128	33'- 4"	160	41'- 8"



TABLE OF HEIGHTS AT 3 1-8" FOR ONE BRICK AND ONE JOINT

Number of Brick		Number of Brick		Number of Brick		Number of Brick		Number of Brick	
161	41'-11 1-8"	193	50'- 3 1-8"	225	58'- 7 1-8"	257	66'-11 1-8"	289	75'- 3 1-8"
162	42'- 2 1-4"	194	50'- 6 1-4"	226	58'-10 1-4"	258	67'- 2 1-4"	290	75'- 6 1-4"
163	42'- 5 3-8"	195	50'- 9 3-8"	227	59'- 1 3-8"	259	67'- 5 3-8"	291	75'- 9 3-8"
164	42'- 8 1-2"	196	51'- 0 1-2"	228	59'- 4 1-2"	260	67'- 8 1-2"	292	76'- 0 1-2"
165	42'-11 5-8"	197	51'- 3 5-8"	229	59'- 7 5-8"	261	67'-11 5-8"	293	76'- 3 5-8"
166	43'- 2 3-4"	198	51'- 6 3-4"	230	59'-10 3-4"	262	68'- 2 3-4"	294	76'- 6 3-4"
167	43'- 5 7-8"	199	51'- 9 7-8"	231	60'- 1 7-8"	263	68'- 5 7-8"	295	76'- 9 7-8"
168	43'- 9"	200	52'- 1"	232	60'- 5"	264	68'- 9"	296	77'- 1"
169	44'- 0 1-8"	201	52'- 4 1-8"	233	60'- 8 1-8"	265	69'- 0 1-8"	297	77'- 4 1-8"
170	44'- 3 1-4"	202	52'- 7 1-4"	234	60'-11 1-4"	266	69'- 3 1-4"	298	77'- 7 1-4"
171	44'- 6 3-8"	203	52'-10 3-8"	235	61'- 2 3-8"	267	69'- 6 3-8"	299	77'-10 3-8"
172	44'- 9 1-2"	204	53'- 1 1-2"	236	61'- 5 1-2"	268	69'- 9 1-2"	300	78'- 1 1-2"
173	45'- 0 5-8"	205	53'- 4 5-8"	237	61'- 8 5-8"	269	70'- 0 5-8"	301	78'- 4 5-8"
174	45'- 3 3-4"	206	53'- 7 3-4"	238	61'-11 3-4"	270	70'- 3 3-4"	302	78'- 7 3-4"
175	45'- 6 7-8"	207	53'-10 7-8"	239	62'- 2 7-8"	271	70'- 6 7-8"	303	78'-10 7-8"
176	45'-10"	208	54'- 2"	240	62'- 6"	272	70'-10"	304	79'- 2"
177	46'- 1 1-8"	209	54'- 5 1-8"	241	62'- 9 1-8"	273	71'- 1 1-8"	305	79'- 5 1-8"
178	46'- 4 1-4"	210	54'- 8 1-4"	242	63'- 0 1-4"	274	71'- 4 1-4"	306	79'- 8 1-4"
179	46'- 7 3-8"	211	54'-11 3-8"	243	63'- 3 3-8"	275	71'- 7 3-8"	307	79'-11 3-8"
180	46'-10 1-2"	212	55'- 2 1-2"	244	63'- 6 1-2"	276	71'-10 1-2"	308	80'- 2 1-2"
181	47'- 1 5-8"	213	55'- 5 5-8"	245	63'- 9 5-8"	277	72'- 1 5-8"	309	80'- 5 5-8"
182	47'- 4 3-4"	214	55'- 8 3-4"	246	64'- 0 3-4"	278	72'- 4 3-4"	310	80'- 8 3-4"
183	47'- 7 7-8"	215	55'-11 7-8"	247	64'- 3 7-8"	279	72'- 7 7-8"	311	80'-11 7-8"
184	47'-11"	216	56'- 3"	248	64'- 7"	280	72'-11"	312	81'- 3"
185	48'- 2 1-8"	217	56'- 6 1-8"	249	64'-10 1-8"	281	73'- 2 1-8"	313	81'- 6 1-8"
186	48'- 5 1-4"	218	56'- 9 1-4"	250	65'- 1 1-4"	282	73'- 5 1-4"	314	81'- 9 1-4"
187	48'- 8 3-8"	219	57'- 0 3-8"	251	65'- 4 3-8"	283	73'- 8 3-8"	315	82'- 0 3-8"
188	48'-11 1-2"	220	57'- 3 1-2"	252	65'- 7 1-2"	284	73'-11 1-2"	316	82'- 3 1-2"
189	49'- 2 5-8"	221	57'- 6 5-8"	253	65'-10 5-8"	285	74'- 2 5-8"	317	82'- 6 5-8"
190	49'- 5 3-4"	222	57'- 9 3-4"	254	66'- 1 3-4"	286	74'- 5 3-4"	318	82'- 9 3-4"
191	49'- 8 7-8"	223	58'- 0 7-8"	255	66'- 4 7-8"	287	74'- 8 7-8"	319	83'- 0 7-8"
192	50'- 0"	224	58'- 4"	256	66'- 8"	288	75'- 0"	320	83'- 4"



TABLE OF HEIGHTS AT 8 1-4" FOR ONE BRICK AND ONE JOINT

Number of Brick		Number of Brick		Number of Brick		Number of Brick		Number of Brick		Number of Brick	
1	3 1-4"	33	8'-11 1-4"	65	17'- 7 1-4"	97	26'- 3 1-4"	129	34'-11 1-4"		
2	6 1-2"	34	9'- 2 1-2"	66	17'-10 1-2"	98	26'- 6 1-2"	130	35'- 2 1-2"		
3	9 3-4"	35	9'- 5 3-4"	67	18'- 1 3-4"	99	26'- 9 3-4"	131	35'- 5 3-4"		
4	1'- 1"	36	9'- 9"	68	18'- 5"	100	27'- 1"	132	35'- 9"		
5	1'- 4 1-4"	37	10'- 0 1-4"	69	18'- 8 1-4"	101	27'- 4 1-4"	133	36'- 0 1-4"		
6	1'- 7 1-2"	38	10'- 3 1-2"	70	18'-11 1-2"	102	27'- 7 1-2"	134	36'- 3 1-2"		
7	1'-10 3-4"	39	10'- 6 3-4"	71	19'- 2 3-4"	103	27'-10 3-4"	135	36'- 6 3-4"		
8	2'- 2"	40	10'- 10"	72	19'- 6"	104	28'- 2"	136	36'-10"		
9	2'- 5 1-4"	41	11'- 1 1-4"	73	19'- 9 1-4"	105	28'- 5 1-4"	137	37'- 1 1-4"		
10	2'- 8 1-2"	42	11'- 4 1-2"	74	20'- 0 1-2"	106	28'- 8 1-2"	138	37'- 4 1-2"		
11	2'-11 3-4"	43	11'- 7 3-4"	75	20'- 3 3-4"	107	28'-11 3-4"	139	37'- 7 3-4"		
12	3'- 3"	44	11'-11"	76	20'- 7"	108	29'- 3"	140	37'-11"		
13	3'- 6 1-4"	45	12'- 2 1-4"	77	20'-10 1-4"	109	29'- 6 1-4"	141	38'- 2 1-4"		
14	3'- 9 1-2"	46	12'- 5 1-2"	78	21'- 1 1-2"	110	29'- 9 1-2"	142	38'- 5 1-2"		
15	4'- 0 3-4"	47	12'- 8 3-4"	79	21'- 4 3-4"	111	30'- 0 3-4"	143	38'- 8 3-4"		
16	4'- 4"	48	13'- 0"	80	21'- 8"	112	30'- 4"	144	39'- 0"		
17	4'- 7 1-4"	49	13'- 3 1-4"	81	21'-11 1-4"	113	30'- 7 1-4"	145	39'- 3 1-4"		
18	4'-10 1-2"	50	13'- 6 1-2"	82	22'- 2 1-2"	114	30'-10 1-2"	146	39'- 6 1-2"		
19	5'- 1 3-4"	51	13'- 9 3-4"	83	22'- 5 3-4"	115	31'- 1 3-4"	147	39'- 9 3-4"		
20	5'- 5"	52	14'- 1"	84	22'- 9"	116	31'- 5"	148	40'- 1"		
21	5'- 8 1-4"	53	14'- 4 1-4"	85	23'- 0 1-4"	117	31'- 8 1-4"	149	40'- 4 1-4"		
22	5'-11 1-2"	54	14'- 7 1-2"	86	23'- 3 1-2"	118	31'-11 1-2"	150	40'- 7 1-2"		
23	6'- 2 3-4"	55	14'-10 3-4"	87	23'- 6 3-4"	119	32'- 2 3-4"	151	40'-10 3-4"		
24	6'- 6"	56	15'- 2"	88	23'-10"	120	32'- 6"	152	41'- 2"		
25	6'- 9 1-4"	57	15'- 5 1-4"	89	24'- 1 1-4"	121	32'- 9 1-4"	153	41'- 5 1-4"		
26	7'- 0 1-2"	58	15'- 8 1-2"	90	24'- 4 1-2"	122	33'- 0 1-2"	154	41'- 8 1-2"		
27	7'- 3 3-4"	59	15'-11 3-4"	91	24'- 7 3-4"	123	33'- 3 3-4"	155	41'-11 3-4"		
28	7'- 7"	60	16'- 3"	92	24'-11"	124	33'- 7"	156	42'- 3"		
29	7'-10 1-4"	61	16'- 6 1-4"	93	25'- 2 1-4"	125	33'-10 1-4"	157	42'- 6 1-4"		
30	8'- 1 1-2"	62	16'- 9 1-2"	94	25'- 5 1-2"	126	34'- 1 1-2"	158	42'- 9 1-2"		
31	8'- 4 3-4"	63	17'- 0 3-4"	95	25'- 8 3-4"	127	34'- 4 3-4"	159	43'- 0 3-4"		
32	8'- 8"	64	17'- 4"	96	26'- 0"	128	34'- 8"	160	43'- 4"		



TABLE OF HEIGHTS AT 3 1-4" FOR ONE BRICK AND ONE JOINT

Number of Brick		Number of Brick		Number of Brick		Number of Brick		Number of Brick		Number of Brick	
161	43'- 7 1-4"	193	52'- 3 1-4"	225	60'-11 1-4"	257	69'- 7 1-4"	289	78'- 3 1-4"		
162	43'-10 1-2"	194	52'- 6 1-2"	226	61'- 2 1-2"	258	69'-10 1-2"	290	78'- 6 1-2"		
163	44'- 1 3-4"	195	52'- 9 3-4"	227	61'- 5 3-4"	259	70'- 1 3-4"	291	78'- 9 3-4"		
164	44'- 5"	196	53'- 1"	228	61'- 9"	260	70'- 5"	292	79'- 1"		
165	44'- 8 1-4"	197	53'- 4 1-4"	229	62'- 0 1-4"	261	70'- 8 1-4"	293	79'- 4 1-4"		
166	44'-11 1-2"	198	53'- 7 1-2"	230	62'- 3 1-2"	262	70'-11 1-2"	294	79'- 7 1-2"		
167	45'- 2 3-4"	199	53'-10 3-4"	231	62'- 6 3-4"	263	71'- 2 3-4"	295	79'-10 3-4"		
168	45'- 6"	200	54'- 2"	232	62'-10"	264	71'- 6"	296	80'- 2"		
169	45'- 9 1-4"	201	54'- 5 1-4"	233	63'- 1 1-4"	265	71'- 9 1-4"	297	80'- 5 1-4"		
170	46'- 0 1-2"	202	54'- 8 1-2"	234	63'- 4 1-2"	266	72'- 0 1-2"	298	80'- 8 1-2"		
171	46'- 3 3-4"	203	54'-11 3-4"	235	63'- 7 3-4"	267	72'- 3 3-4"	299	80'-11 3-4"		
172	46'- 7"	204	55'- 3"	236	63'-11"	268	72'- 7"	300	81'- 3"		
173	46'-10 1-4"	205	55'- 6 1-4"	237	64'- 2 1-4"	269	72'-10 1-4"	301	81'- 6 1-4"		
174	47'- 1 1-2"	206	55'- 9 1-2"	238	64'- 5 1-2"	270	73'- 1 1-2"	302	81'- 9 1-2"		
175	47'- 4 3-4"	207	56'- 0 3-4"	239	64'- 8 3-4"	271	73'- 4 3-4"	303	82'- 0 3-4"		
176	47'- 8"	208	56'- 4"	240	65'- 0"	272	73'- 8"	304	82'- 4"		
177	47'-11 1-4"	209	56'- 7 1-4"	241	65'- 3 1-4"	273	73'-11 1-4"	305	82'- 7 1-4"		
178	48'- 2 1-2"	210	56'-10 1-2"	242	65'- 6 1-2"	274	74'- 2 1-2"	306	82'-10 1-2"		
179	48'- 5 3-4"	211	57'- 1 3-4"	243	65'- 9 3-4"	275	74'- 5 3-4"	307	83'- 1 3-4"		
180	48'- 9"	212	57'- 5"	244	66'- 1"	276	74'- 9"	308	83'- 5"		
181	49'- 0 1-4"	213	57'- 8 1-4"	245	66'- 4 1-4"	277	75'- 0 1-4"	309	83'- 8 1-4"		
182	49'- 3 1-2"	214	57'-11 1-2"	246	66'- 7 1-2"	278	75'- 3 1-2"	310	83'-11 1-2"		
183	49'- 6 3-4"	215	58'- 2 3-4"	247	66'-10 3-4"	279	75'- 6 3-4"	311	84'- 2 3-4"		
184	49'-10"	216	58'- 6"	248	67'- 2"	280	75'-10"	312	84'- 6"		
185	50'- 1 1-4"	217	58'- 9 1-4"	249	67'- 5 1-4"	281	76'- 1 1-4"	313	84'- 9 1-4"		
186	50'- 4 1-2"	218	59'- 0 1-2"	250	67'- 8 1-2"	282	76'- 4 1-2"	314	85'- 0 1-2"		
187	50'- 7 3-4"	219	59'- 3 3-4"	251	67'-11 3-4"	283	76'- 7 3-4"	315	85'- 3 3-4"		
188	50'-11"	220	59'- 7"	252	68'- 3"	284	76'-11"	316	85'- 7"		
189	51'- 2 1-4"	221	59'-10 1-4"	253	68'- 6 1-4"	285	77'- 2 1-4"	317	85'-10 1-4"		
190	51'- 5 1-2"	222	60'- 1 1-2"	254	68'- 9 1-2"	286	77'- 5 1-2"	318	86'- 1 1-2"		
191	51'- 8 3-4"	223	60'- 4 3-4"	255	69'- 0 3-4"	287	77'- 8 3-4"	319	86'- 4 3-4"		
192	52'- 0"	224	60'- 8"	256	69'- 4"	288	78'- 0"	320	86'- 8"		



TABLE OF HEIGHTS AT 3 3-8" FOR ONE BRICK AND ONE JOINT

Number of Brick		Number of Brick		Number of Brick		Number of Brick		Number of Brick	
1	3 3-8"	33	9'- 3 3-8"	65	18'- 3 3-8"	97	27'- 3 3-8"	129	36'- 3 3-8"
2	6 3-4"	34	9'- 6 3-4"	66	18'- 6 3-4"	98	27'- 6 3-4"	130	36'- 6 3-4"
3	10 1-8"	35	9'-10 1-8"	67	18'-10 1-8"	99	27'-10 1-8"	131	36'-10 1-8"
4	1'- 1 1-2"	36	10'- 1 1-2"	68	19'- 1 1-2"	100	28'- 1 1-2"	132	37'- 1 1-2"
5	1'- 4 7-8"	37	10'- 4 7-8"	69	19'- 4 7-8"	101	28'- 4 7-8"	133	37'- 4 7-8"
6	1'- 8 1-4"	38	10'- 8 1-4"	70	19'- 8 1-4"	102	28'- 8 1-4"	134	37'- 8 1-4"
7	1'-11 5-8"	39	10'-11 5-8"	71	19'-11 5-8"	103	28'-11 5-8"	135	37'-11 5-8"
8	2'- 3 "	40	11'- 3 "	72	20'- 3 "	104	29'- 3 "	136	38'- 3 "
9	2'- 6 3-8"	41	11'- 6 3-8"	73	20'- 6 3-8"	105	29'- 6 3-8"	137	38'- 6 3-8"
10	2'- 9 3-4"	42	11'- 9 3-4"	74	20'- 9 3-4"	106	29'- 9 3-4"	138	38'- 9 3-4"
11	3'- 1 1-8"	43	12'- 1 1-8"	75	21'- 1 1-8"	107	30'- 1 1-8"	139	39'- 1 1-8"
12	3'- 4 1-2"	44	12'- 4 1-2"	76	21'- 4 1-2"	108	30'- 4 1-2"	140	39'- 4 1-2"
13	3'- 7 7-8"	45	12'- 7 7-8"	77	21'- 7 7-8"	109	30'- 7 7-8"	141	39'- 7 7-8"
14	3'-11 1-4"	46	12'-11 1-4"	78	21'-11 1-4"	110	30'-11 1-4"	142	39'-11 1-4"
15	4'- 2 5-8"	47	13'- 2 5-8"	79	22'- 2 5-8"	111	31'- 2 5-8"	143	40'- 2 5-8"
16	4'- 6 "	48	13'- 6 "	80	22'- 6 "	112	31'- 6 "	144	40'- 6 "
17	4'- 9 3-8"	49	13'- 9 3-8"	81	22'- 9 3-8"	113	31'- 9 3-8"	145	40'- 9 3-8"
18	5'- 0 3-4"	50	14'- 0 3-4"	82	23'- 0 3-4"	114	32'- 0 3-4"	146	41'- 0 3-4"
19	5'- 4 1-8"	51	14'- 4 1-8"	83	23'- 4 1-8"	115	32'- 4 1-8"	147	41'- 4 1-8"
20	5'- 7 1-2"	52	14'- 7 1-2"	84	23'- 7 1-2"	116	32'- 7 1-2"	148	41'- 7 1-2"
21	5'-10 7-8"	53	14'-10 7-8"	85	23'-10 7-8"	117	32'-10 7-8"	149	41'-10 7-8"
22	6'- 2 1-4"	54	15'- 2 1-4"	86	24'- 2 1-4"	118	33'- 2 1-4"	150	42'- 2 1-4"
23	6'- 5 5-8"	55	15'- 5 5-8"	87	24'- 5 5-8"	119	33'- 5 5-8"	151	42'- 5 5-8"
24	6'- 9 "	56	15'- 9 "	88	24'- 9 "	120	33'- 9 "	152	42'- 9 "
25	7'- 0 3-8"	57	16'- 0 3-8"	89	25'- 0 3-8"	121	34'- 0 3-8"	153	43'- 0 3-8"
26	7'- 3 3-4"	58	16'- 3 3-4"	90	25'- 3 3-4"	122	34'- 3 3-4"	154	43'- 3 3-4"
27	7'- 7 1-8"	59	16'- 7 1-8"	91	25'- 7 1-8"	123	34'- 7 1-8"	155	43'- 7 1-8"
28	7'-10 1-2"	60	16'-10 1-2"	92	25'-10 1-2"	124	34'-10 1-2"	156	43'-10 1-2"
29	8'- 1 7-8"	61	17'- 1 7-8"	93	26'- 1 7-8"	125	35'- 1 7-8"	157	44'- 1 7-8"
30	8'- 5 1-4"	62	17'- 5 1-4"	94	26'- 5 1-4"	126	35'- 5 1-4"	158	44'- 5 1-4"
31	8'- 8 5-8"	63	17'- 8 5-8"	95	26'- 8 5-8"	127	35'- 8 5-8"	159	44'- 8 5-8"
32	9'- 0 "	64	18'- 0 "	96	27'- 0 "	128	36'- 0 "	160	45'- 0 "



# TABLE OF HEIGHTS AT 3 3-8" FOR ONE BRICK AND ONE JOINT

Number of Brick		Number of Brick		Number of Brick		Number of Brick		Number of Brick	
161	45'- 3 3-8"	193	54'- 3 3-8"	225	63'- 3 3-8"	257	72'- 3 3-8"	289	81'- 3 3-8"
162	45'- 6 3-4"	194	54'- 6 3-4"	226	63'- 6 3-4"	258	72'- 6 3-4"	290	81'- 6 3-4"
163	45'-10 1-8"	195	54'-10 1-8"	227	63'-10 1-8"	259	72'-10 1-8"	291	81'-10 1-8"
164	46'- 1 1-2"	196	55'- 1 1-2"	228	64'- 1 1-2"	260	73'- 1 1-2"	292	82'- 1 1-2"
165	46'- 4 7-8"	197	55'- 4 7-8"	229	64'- 4 7-8"	261	73'- 4 7-8"	293	82'- 4 7-8"
166	46'- 8 1-4"	198	55'- 8 1-4"	230	64'- 8 1-4"	262	73'- 8 1-4"	294	82'- 8 1-4"
167	46'-11 5-8"	199	55'-11 5-8"	231	64'-11 5-8"	263	73'-11 5-8"	295	82'-11 5-8"
168	47'- 3"	200	56'- 3"	232	65'- 3"	264	74'- 3"	296	83'- 3"
169	47'- 6 3-8"	201	56'- 6 3-8"	233	65'- 6 3-8"	265	74'- 6 3-8"	297	83'- 6 3-8"
170	47'- 9 3-4"	202	56'- 9 3-4"	234	65'- 9 3-4"	266	74'- 9 3-4"	298	83'- 9 3-4"
171	48'- 1 1-8"	203	57'- 1 1-8"	235	66'- 1 1-8"	267	75'- 1 1-8"	299	84'- 1 1-8"
172	48'- 4 1-2"	204	57'- 4 1-2"	236	66'- 4 1-2"	268	75'- 4 1-2"	300	84'- 4 1-2"
173	48'- 7 7-8"	205	57'- 7 7-8"	237	66'- 7 7-8"	269	75'- 7 7-8"	301	84'- 7 7-8"
174	48'-11 1-4"	206	57'-11 1-4"	238	66'-11 1-4"	270	75'-11 1-4"	302	84'-11 1-4"
175	49'- 2 5-8"	207	58'- 2 5-8"	239	67'- 2 5-8"	271	76'- 2 5-8"	303	85'- 2 5-8"
176	49'- 6"	208	58'- 6"	240	67'- 6"	272	76'- 6"	304	85'- 6"
177	49'- 9 3-8"	209	58'- 9 3-8"	241	67'- 9 3-8"	273	76'- 9 3-8"	305	85'- 9 3-8"
178	50'- 0 3-4"	210	59'- 0 3-4"	242	68'- 0 3-4"	274	77'- 0 3-4"	306	86'- 0 3-4"
179	50'- 4 1-8"	211	59'- 4 1-8"	243	68'- 4 1-8"	275	77'- 4 1-8"	307	86'- 4 1-8"
180	50'- 7 1-2"	212	59'- 7 1-2"	244	68'- 7 1-2"	276	77'- 7 1-2"	308	86'- 7 1-2"
181	50'-10 7-8"	213	59'-10 7-8"	245	68'-10 7-8"	277	77'-10 7-8"	309	86'-10 7-8"
182	51'- 2 1-4"	214	60'- 2 1-4"	246	69'- 2 1-4"	278	78'- 2 1-4"	310	87'- 2 1-4"
183	51'- 5 5-8"	215	60'- 5 5-8"	247	69'- 5 5-8"	279	78'- 5 5-8"	311	87'- 5 5-8"
184	51'- 9"	216	60'- 9"	248	69'- 9"	280	78'- 9"	312	87'- 9"
185	52'- 0 3-8"	217	61'- 0 3-8"	249	70'- 0 3-8"	281	79'- 0 3-8"	313	88'- 0 3-8"
186	52'- 3 3-4"	218	61'- 3 3-4"	250	70'- 3 3-4"	282	79'- 3 3-4"	314	88'- 3 3-4"
187	52'- 7 1-8"	219	61'- 7 1-8"	251	70'- 7 1-8"	283	79'- 7 1-8"	315	88'- 7 1-8"
188	52'-10 1-2"	220	61'-10 1-2"	252	70'-10 1-2"	284	79'-10 1-2"	316	88'-10 1-2"
189	53'- 1 7-8"	221	62'- 1 7-8"	253	71'- 1 7-8"	285	80'- 1 7-8"	317	89'- 1 7-8"
190	53'- 5 1-4"	222	62'- 5 1-4"	254	71'- 5 1-4"	286	80'- 5 1-4"	318	89'- 5 1-4"
191	53'- 8 5-8"	223	62'- 8 5-8"	255	71'- 8 5-8"	287	80'- 8 5-8"	319	89'- 8 5-8"
192	54'- 0"	224	63'- 0"	256	72'- 0"	288	81'- 0"	320	90'- 0"



In agreement with their corresponding Scales, [the Tables for horizontal measurements are worked out on the basis of a header and stretcher plus two joints, and cover the following seven lengths: 12 1-2", 12 3-4", 13", 13 1-4", 13 1-2", 13 3-4" and 14".

It will be noted that these tables run into twelfths of an inch, a result due to the use of three as a divisor. As the resulting fractions are very unusual in building practice, a supplementary Table of Reductions is here given, showing the nearest equivalents in 1-16", 1-8", and 1-4", as well as the slight discrepancy of 1-48", plus or minus, involved in the substitution. This substitution, suggested for convenience in using the [usual divisions of the two-foot rule, that is, 1-16", 1-8", and 1-4", is so small a variation from the actual accurate lengths as to be unnoticeable, in laying out the work, and can have no effect upon the completed structure.

#### TABLE OF REDUCTIONS

Table Dimensions		Nearest Sixteenths		Differences
1-12"	=	1-16"	+	1-48"
1- 6"	=	3-16"	-	1-48"
1- 4"	=	4-16"		
1- 3"	=	5-16"	+	1-48"
5-12"	=	7-16"	-	1-48"
1- 2"	=	8-16"		
7-12"	=	9-16"	+	1-48"
2- 3"	=	11-16"	-	1-48"
3- 4"	=	12-16"		
5- 6"	=	13-16"	+	1-48"
11-12"	=	15-16"	-	1-48"
1"	=	16-16"		



TABLE OF LENGTHS USING 12 1-2" FOR A HEADER, STRETCHER AND TWO CROSS JOINTS

Number of Brick		Number of Brick		Number of Brick		Number of Brick	
0 1-2	4 1-6"	16 1-2	11'- 5 1-2"	32 1-2	22'- 6 5-6"	48 1-2	33'- 8 1-6"
1	8 1-3"	17	11'- 9 2-3"	33	22'-11"	49	34'- 0 1-3"
1 1-2	1'- 0 1-2"	17 1-2	12'- 1 5-6"	33 1-2	23'- 3 1-6"	49 1-2	34'- 4 1-2"
2	1'- 4 2-3"	18	12'- 6"	34	23'- 7 1-3"	50	34'- 8 2-3"
2 1-2	1'- 8 5-6"	18 1-2	12'-10 1-6"	34 1-2	23'-11 1-2"	50 1-2	35'- 0 5-6"
3	2'- 1"	19	13'- 2 1-3"	35	24'- 3 2-3"	51	35'- 5"
3 1-2	2'- 5 1-6"	19 1-2	13'- 6 1-2"	35 1-2	24'- 7 5-6"	51 1-2	35'- 9 1-6"
4	2'- 9 1-3"	20	13'-10 2-3"	36	25'- 0"	52	36'- 1 1-3"
4 1-2	3'- 1 1-2"	20 1-2	14'- 2 5-6"	36 1-2	25'- 4 1-6"	52 1-2	36'- 5 1-2"
5	3'- 5 2-3"	21	14'- 7"	37	25'- 8 1-3"	53	36'- 9 2-3"
5 1-2	3'- 9 5-6"	21 1-2	14'-11 1-6"	37 1-2	26'- 0 1-2"	53 1-2	37'- 1 5-6"
6	4'- 2"	22	15'- 3 1-3"	38	26'- 4 2-3"	54	37'- 6"
6 1-2	4'- 6 1-6"	22 1-2	15'- 7 1-2"	38 1-2	26'- 8 5-6"	54 1-2	37'-10 1-6"
7	4'-10 1-3"	23	15'-11 2-3"	39	27'- 1"	55	38'- 2 1-3"
7 1-2	5'- 2 1-2"	23 1-2	16'- 3 5-6"	39 1-2	27'- 5 1-6"	55 1-2	38'- 6 1-2"
8	5'- 6 2-3"	24	16'- 8"	40	27'- 9 1-3"	56	38'-10 2-3"
8 1-2	5'-10 5-6"	24 1-2	17'- 0 1-6"	40 1-2	28'- 1 1-2"	56 1-2	39'- 2 5-6"
9	6'- 3"	25	17'- 4 1-3"	41	28'- 5 2-3"	57	39'- 7"
9 1-2	6'- 7 1-6"	25 1-2	17'- 8 1-2"	41 1-2	28'- 9 5-6"	57 1-2	39'-11 1-6"
10	6'-11 1-3"	26	18'- 0 2-3"	42	29'- 2"	58	40'- 3 1-3"
10 1-2	7'- 3 1-2"	26 1-2	18'- 4 5-6"	42 1-2	29'- 6 1-6"	58 1-2	40'- 7 1-2"
11	7'- 7 2-3"	27	18'- 9"	43	29'-10 1-3"	59	40'-11 2-3"
11 1-2	7'-11 5-6"	27 1-2	19'- 1 1-6"	43 1-2	30'- 2 1-2"	59 1-2	41'- 3 5-6"
12	8'- 4"	28	19'- 5 1-3"	44	30'- 6 2-3"	60	41' 8"
12 1-2	8'- 8 1-6"	28 1-2	19'- 9 1-2"	44 1-2	30'-10 5-6"	60 1-2	42'- 0 1-6"
13	9'- 0 1-3"	29	20'- 1 2-3"	45	31'- 3"	61	42'- 4 1-3"
13 1-2	9'- 4 1-2"	29 1-2	20'- 5 5-6"	45 1-2	31'- 7 1-6"	61 1-2	42'- 8 1-2"
14	9'- 8 2-3"	30	20'-10"	46	31'-11 1-3"	62	43'- 0 2-3"
14 1-2	10'- 0 5-6"	30 1-2	21'- 2 1-6"	46 1-2	32'- 3 1-2"	62 1-2	43'- 4 5-6"
15	10'- 5"	31	21'- 6 1-3"	47	32'- 7 2-3"	63	43'- 9"
15 1-2	10'- 9 1-6"	31 1-2	21'-10 1-2"	47 1-2	32'-11 5-6"	63 1-2	44'- 1 1-6"
16	11'- 1 1-3"	32	22'- 2 2-3"	48	33'- 4"	64	44'- 5 1-3"



TABLE OF LENGTHS USING 12 3-4" FOR A HEADER, STRETCHER AND TWO CROSS JOINTS

Number of Brick		Number of Brick		Number of Brick		Number of Brick	
0 1-2	4 1-4"	16 1-2	11'- 8 1-4"	32 1-2	23'- 0 1-4"	48 1-2	34'- 4 1-4"
1	8 1-2"	17	12'- 0 1-2"	33	23'- 4 1-2"	49	34'- 8 1-2"
1 1-2	1'- 0 3-4"	17 1-2	12'- 4 3-4"	33 1-2	23'- 8 3-4"	49 1-2	35'- 0 3-4"
2	1'- 5"	18	12'- 9"	34	24'- 1"	50	35'- 5"
2 1-2	1'- 9 1-4"	18 1-2	13'- 1 1-4"	34 1-2	24'- 5 1-4"	50 1-2	35'- 9 1-4"
3	2'- 1 1-2"	19	13'- 5 1-2"	35	24'- 9 1-2"	51	36'- 1 1-2"
3 1-2	2'- 5 3-4"	19 1-2	13'- 9 3-4"	35 1-2	25'- 1 3-4"	51 1-2	36'- 5 3-4"
4	2'-10"	20	14'- 2"	36	25'- 6"	52	36'-10"
4 1-2	3'- 2 1-4"	20 1-2	14'- 6 1-4"	36 1-2	25'-10 1-4"	52 1-2	37'- 2 1-4"
5	3'- 6 1-2"	21	14'-10 1-2"	37	26'- 2 1-2"	53	37'- 6 1-2"
5 1-2	3'-10 3-4"	21 1-2	15'- 2 3-4"	37 1-2	26'- 6 3-4"	53 1-2	37'-10 3-4"
6	4'- 3"	22	15'- 7"	38	26'-11"	54	38'- 3"
6 1-2	4'- 7 1-4"	22 1-2	15'-11 1-4"	38 1-2	27'- 3 1-4"	54 1-2	38'- 7 1-4"
7	4'-11 1-2"	23	16'- 3 1-2"	39	27'- 7 1-2"	55	38'-11 1-2"
7 1-2	5'- 3 3-4"	23 1-2	16'- 7 3-4"	39 1-2	27'-11 3-4"	55 1-2	39'- 3 3-4"
8	5'- 8"	24	17'- 0"	40	28'- 4"	56	39'- 8"
8 1-2	6'- 0 1-4"	24 1-2	17'- 4 1-4"	40 1-2	28'- 8 1-4"	56 1-2	40'- 0 1-4"
9	6'- 4 1-2"	25	17'- 8 1-2"	41	29'- 0 1-2"	57	40'- 4 1-2"
9 1-2	6'- 8 3-4"	25 1-2	18'- 0 3-4"	41 1-2	29'- 4 3-4"	57 1-2	40'- 8 3-4"
10	7'- 1"	26	18'- 5"	42	29'- 9"	58	41'- 1"
10 1-2	7'- 5 1-4"	26 1-2	18'- 9 1-4"	42 1-2	30'- 1 1-4"	58 1-2	41'- 5 1-4"
11	7'- 9 1-2"	27	19'- 1 1-2"	43	30'- 5 1-2"	59	41'- 9 1-2"
11 1-2	8'- 1 3-4"	27 1-2	19'- 5 3-4"	43 1-2	30'- 9 3-4"	59 1-2	42'- 1 3-4"
12	8'- 6"	28	19'-10"	44	31'- 2"	60	42'- 6"
12 1-2	8'-10 1-4"	28 1-2	20'- 2 1-4"	44 1-2	31'- 6 1-4"	60 1-2	42'-10 1-4"
13	9'- 2 1-2"	29	20'- 6 1-2"	45	31'-10 1-2"	61	43'- 2 1-2"
13 1-2	9'- 6 3-4"	29 1-2	20'-10 3-4"	45 1-2	32'- 2 3-4"	61 1-2	43'- 6 3-4"
14	9'-11"	30	21'- 3"	46	32'- 7"	62	43'-11"
14 1-2	10'- 3 1-4"	30 1-2	21'- 7 1-4"	46 1-2	32'-11 1-4"	62 1-2	44'- 3 1-4"
15	10'- 7 1-2"	31	21'-11 1-2"	47	33'- 3 1-2"	63	44'- 7 1-2"
15 1-2	10'-11 3-4"	31 1-2	22'- 3 3-4"	47 1-2	33'- 7 3-4"	63 1-2	44'-11 3-4"
16	11'- 4"	32	22'- 8"	48	34'- 0"	64	45'- 4"



TABLE OF LENGTHS USING 13" FOR A HEADER, STRETCHER AND TWO CROSS JOINTS

Number of Brick		Number of Brick		Number of Brick		Number of Brick	
0 1-2	4 1-3"	16 1-2	11'-11"	32 1-2	23'- 5 2-3"	48 1-2	35'- 0 1-3"
1	8 2-3"	17	12'- 3 1-3"	33	23'-10"	49	35'- 4 2-3"
1 1-2	1'- 1"	17 1-2	12'- 7 2-3"	33 1-2	24'- 2 1-3"	49 1-2	35'- 9"
2	1'- 5 1-3"	18	13'- 0"	34	24'- 6 2-3"	50	36'- 1 1-3"
2 1-2	1'- 9 2-3"	18 1-2	13'- 4 1-3"	34 1-2	24'-11"	50 1-2	36'- 5 2-3"
3	2'- 2"	19	13'- 8 2-3"	35	25'- 3 1-3"	51	36'-10"
3 1-2	2'- 6 1-3"	19 1-2	14'- 1"	35 1-2	25'- 7 2-3"	51 1-2	37'- 2 1-3"
4	2'-10 2-3"	20	14'- 5 1-3"	36	26'- 0"	52	37'- 6 2-3"
4 1-2	3'- 3"	20 1-2	14'- 9 2-3"	36 1-2	26'- 4 1-3"	52 1-2	37'-11"
5	3'- 7 1-3"	21	15'- 2"	37	26'- 8 2-3"	53	38'- 3 1-3"
5 1-2	3'-11 2-3"	21 1-2	15'- 6 1-3"	37 1-2	27'- 1"	53 1-2	38'- 7 2-3"
6	4'- 4"	22	15'-10 2-3"	38	27'- 5 1-3"	54	39'- 0"
6 1-2	4'- 8 1-3"	22 1-2	16'- 3"	38 1-2	27'- 9 2-3"	54 1-2	39'- 4 1-3"
7	5'- 0 2-3"	23	16'- 7 1-3"	39	28'- 2"	55	39'- 8 2-3"
7 1-2	5'- 5"	23 1-2	16'-11 2-3"	39 1-2	28'- 6 1-3"	55 1-2	40'- 1"
8	5'- 9 1-3"	24	17'- 4"	40	28'-10 2-3"	56	40'- 5 1-3"
8 1-2	6'- 1 2-3"	24 1-2	17'- 8 1-3"	40 1-2	29'- 3"	56 1-2	40'- 9 2-3"
9	6'- 6"	25	18'- 0 2-3"	41	29'- 7 1-3"	57	41'- 2"
9 1-2	6'-10 1-3"	25 1-2	18'- 5"	41 1-2	29'-11 2-3"	57 1-2	41'- 6 1-3"
10	7'- 2 2-3"	26	18'- 9 1-3"	42	30'- 4"	58	41'-10 2-3"
10 1-2	7'- 7"	26 1-2	19'- 1 2-3"	42 1-2	30'- 8 1-3"	58 1-2	42'- 3"
11	7'-11 1-3"	27	19'- 6"	43	31'- 0 2-3"	59	42'- 7 1-3"
11 1-2	8'- 3 2-3"	27 1-2	19'-10 1-3"	43 1-2	31'- 5"	59 1-2	42'-11 2-3"
12	8'- 8"	28	20'- 2 2-3"	44	31'- 9 1-3"	60	43'- 4"
12 1-2	9'- 0 1-3"	28 1-2	20'- 7"	44 1-2	32'- 1 2-3"	60 1-2	43'- 8 1-3"
13	9'- 4 2-3"	29	20'-11 1-3"	45	32'- 6"	61	44'- 0 2-3"
13 1-2	9'- 9"	29 1-2	21'- 3 2-3"	45 1-2	32'-10 1-3"	61 1-2	44'- 5"
14	10'- 1 1-3"	30	21'- 8"	46	33'- 2 2-3"	62	44'- 9 1-3"
14 1-2	10'- 5 2-3"	30 1-2	22'- 0 1-3"	46 1-2	33'- 7"	62 1-2	45'- 1 2-3"
15	10'-10"	31	22'- 4 2-3"	47	33'-11 1-3"	63	45'- 6"
15 1-2	11'- 2 1-3"	31 1-2	22'- 9"	47 1-2	34'- 3 2-3"	63 1-2	45'-10 1-3"
16	11'- 6 2-3"	32	23'- 1 1-3"	48	34'- 8"	64	46'- 2 2-3"



TABLE OF LENGTHS USING 13 1-4" FOR A HEADER, STRETCHER AND TWO CROSS JOINTS

Number of Brick			Number of Brick			Number of Brick			Number of Brick		
0 1-2	4	5-12"	16 1-2	12'- 1	3- 4"	32 1-2	23'-11	1-12"	48 1-2	35'- 8	5-12"
1	8	5- 6"	17	12'- 6	1- 6"	33	24'- 3	1- 2"	49	36'- 0	5- 6"
1 1-2	1'- 1	1- 4"	17 1-2	12'-10	7-12"	33 1-2	24'- 7	11-12"	49 1-2	36'- 5	1- 4"
2	1'- 5	2- 3"	18	13'- 3"		34	25'- 0	1- 3"	50	36'- 9	2- 3"
2 1-2	1'-10	1-12"	18 1-2	13'- 7	5-12"	34 1-2	25'- 4	3- 4"	50 1-2	37'- 2	1-12"
3	2'- 2	1- 2"	19	13'-11	5- 6"	35	25'- 9	1- 6"	51	37'- 6	1- 2"
3 1-2	2'- 6	11-12"	19 1-2	14'- 4	1- 4"	35 1-2	26'- 1	7-12"	51 1-2	37'-10	11-12"
4	2'-11	1- 3"	20	14'- 8	2- 3"	36	26'- 6"		52	38'- 3	1- 3"
4 1-2	3'- 3	3- 4"	20 1-2	15'- 1	1-12"	36 1-2	26'-10	5-12"	52 1-2	38'- 7	3- 4"
5	3'- 8	1- 6"	21	15'- 5	1- 2"	37	27'- 2	5- 6"	53	39'- 0	1- 6"
5 1-2	4'- 0	7-12"	21 1-2	15'- 9	11-12"	37 1-2	27'- 7	1- 4"	53 1-2	39'- 4	7-12"
6	4'- 5"		22	16'- 2	1- 3"	38	27'-11	2- 3"	54	39'- 9"	
6 1-2	4'- 9	5-12"	22 1-2	16'- 6	3- 4"	38 1-2	28'- 4	1-12"	54 1-2	40'- 1	5-12"
7	5'- 1	5- 6"	23	16'-11	1- 6"	39	28'- 8	1- 2"	55	40'- 5	5- 6"
7 1-2	5'- 6	1- 4"	23 1-2	17'- 3	7-12"	39 1-2	29'- 0	11-12"	55 1-2	40'-10	1- 4"
8	5'-10	2- 3"	24	17'- 8"		40	29'- 5	1- 3"	56	41'- 2	2- 3"
8 1-2	6'- 3	1-12"	24 1-2	18'- 0	5-12"	40 1-2	29'- 9	3- 4"	56 1-2	41'- 7	1-12"
9	6'- 7	1- 2"	25	18'- 4	5- 6"	41	30'- 2	1- 6"	57	41'-11	1- 2"
9 1-2	6'-11	11-12"	25 1-2	18'- 9	1- 4"	41 1-2	30'- 6	7-12"	57 1-2	42'- 3	11-12"
10	7'- 4	1- 3"	26	19'- 1	2- 3"	42	30'-11"		58	42'- 8	1- 3"
10 1-2	7'- 8	3- 4"	26 1-2	19'- 6	1-12"	42 1-2	31'- 3	5-12"	58 1-2	43'- 0	3- 4"
11	8'- 1	1- 6"	27	19'-10	1- 2"	43	31'- 7	5- 6"	59	43'- 5	1- 6"
11 1-2	8'- 5	7-12"	27 1-2	20'- 2	11-12"	43 1-2	32'- 0	1- 4"	59 1-2	43'- 9	7-12"
12	8'-10"		28	20'- 7	1- 3"	44	32'- 4	2- 3"	60	44'- 2"	
12 1-2	9'- 2	5-12"	28 1-2	20'-11	3- 4"	44 1-2	32'- 9	1-12"	60 1-2	44'- 6	5-12"
13	9'- 6	5- 6"	29	21'- 4	1- 6"	45	33'- 1	1- 2"	61	44'-10	5- 6"
13 1-2	9'-11	1- 4"	29 1-2	21'- 8	7-12"	45 1-2	33'- 5	11-12"	61 1-2	45'- 3	1- 4"
14	10'- 3	2- 3"	30	22'- 1"		46	33'-10	1- 3"	62	45'- 7	2- 3"
14 1-2	10'- 8	1-12"	30 1-2	22'- 5	5-12"	46 1-2	34'- 2	3- 4"	62 1-2	46'- 0	1-12"
15	11'- 0	1- 2"	31	22'- 9	5- 6"	47	34'- 7	1- 6"	63	46'- 4	1- 2"
15 1-2	11'- 4	11-12"	31 1-2	23'- 2	1- 4"	47 1-2	34'-11	7-12"	63 1-2	46'- 8	11-12"
16	11'- 9	1- 3"	32	23'- 6	2- 3"	48	35'- 4"		64	47'- 1	1- 3"



TABLE OF LENGTHS USING 18 1-2" FOR A HEADER, STRETCHER AND TWO CROSS JOINTS

Number of Brick		Number of Brick		Number of Brick		Number of Brick	
0 1-2	4 1-2"	16 1-2	12'- 4 1-2"	32 1-2	24'- 4 1-2"	48 1-2	36'- 4 1-2"
1	9"	17	12'- 9"	33	24'- 9"	49	36'- 9"
1 1-2	1'- 1 1-2"	17 1-2	13'- 1 1-2"	33 1-2	25'- 1 1-2"	49 1-2	37'- 1 1-2"
2	1'- 6"	18	13'- 6"	34	25'- 6"	50	37'- 6"
2 1-2	1'-10 1-2"	18 1-2	13'-10 1-2"	34 1-2	25'-10 1-2"	50 1-2	37'-10 1-2"
3	2'- 3"	19	14'- 3"	35	26'- 3"	51	38'- 3"
3 1-2	2'- 7 1-2"	19 1-2	14'- 7 1-2"	35 1-2	26'- 7 1-2"	51 1-2	38'- 7 1-2"
4	3'- 0"	20	15'- 0"	36	27'- 0"	52	39'- 0"
4 1-2	3'- 4 1-2"	20 1-2	15'- 4 1-2"	36 1-2	27'- 4 1-2"	52 1-2	39'- 4 1-2"
5	3'- 9"	21	15'- 9"	37	27'- 9"	53	39'- 9"
5 1-2	4'- 1 1-2"	21 1-2	16'- 1 1-2"	37 1-2	28'- 1 1-2"	53 1-2	40'- 1 1-2"
6	4'- 6"	22	16'- 6"	38	28'- 6"	54	40'- 6"
6 1-2	4'-10 1-2"	22 1-2	16'-10 1-2"	38 1-2	28'-10 1-2"	54 1-2	40'-10 1-2"
7	5'- 3"	23	17'- 3"	39	29'- 3"	55	41'- 3"
7 1-2	5'- 7 1-2"	23 1-2	17'- 7 1-2"	39 1-2	29'- 7 1-2"	55 1-2	41'- 7 1-2"
8	6'- 0"	24	18'- 0"	40	30'- 0"	56	42'- 0"
8 1-2	6'- 4 1-2"	24 1-2	18'- 4 1-2"	40 1-2	30'- 4 1-2"	56 1-2	42'- 4 1-2"
9	6'- 9"	25	18'- 9"	41	30'- 9"	57	42'- 9"
9 1-2	7'- 1 1-2"	25 1-2	19'- 1 1-2"	41 1-2	31'- 1 1-2"	57 1-2	43'- 1 1-2"
10	7'- 6"	26	19'- 6"	42	31'- 6"	58	43'- 6"
10 1-2	7'-10 1-2"	26 1-2	19'-10 1-2"	42 1-2	31'-10 1-2"	58 1-2	43'-10 1-2"
11	8'- 3"	27	20'- 3"	43	32'- 3"	59	44'- 3"
11 1-2	8'- 7 1-2"	27 1-2	20'- 7 1-2"	43 1-2	32'- 7 1-2"	59 1-2	44'- 7 1-2"
12	9'- 0"	28	21'- 0"	44	33'- 0"	60	45'- 0"
12 1-2	9'- 4 1-2"	28 1-2	21'- 4 1-2"	44 1-2	33'- 4 1-2"	60 1-2	45'- 4 1-2"
13	9'- 9"	29	21'- 9"	45	33'- 9"	61	45'- 9"
13 1-2	10'- 1 1-2"	29 1-2	22'- 1 1-2"	45 1-2	34'- 1 1-2"	61 1-2	46'- 1 1-2"
14	10'- 6"	30	22'- 6"	46	34'- 6"	62	46'- 6"
14 1-2	10'-10 1-2"	30 1-2	22'-10 1-2"	46 1-2	34'-10 1-2"	62 1-2	46'-10 1-2"
15	11'- 3"	31	23'- 3"	47	35'- 3"	63	47'- 3"
15 1-2	11'- 7 1-2"	31 1-2	23'- 7 1-2"	47 1-2	35'- 7 1-2"	63 1-2	47'- 7 1-2"
16	12'- 0"	32	24'- 0"	48	36'- 0"	64	48'- 0"



TABLE OF LENGTHS USING 18 3-4" FOR A HEADER, STRETCHER AND TWO CROSS JOINTS

Number of Brick			Number of Brick			Number of Brick			Number of Brick		
0 1-2	4	7-12"	16 1-2	12'- 7	1- 4"	32 1-2	24'- 9	11-12"	48 1-2	37'- 0	7-12"
1	9	1- 6"	17	12'-11	5- 6"	33	25'- 2	1- 2"	49	37'- 5	1- 6"
1 1-2	1'- 1	3- 4"	17 1-2	13'- 4	5-12"	33 1-2	25'- 7	1-12"	49 1-2	37'- 9	3- 4"
2	1'- 6	1- 3"	18	13'- 9"		34	25'-11	2- 3"	50	38'- 2	1- 3"
2 1-2	1'-10	11-12"	18 1-2	14'- 1	7-12"	34 1-2	26'- 4	1- 4"	50 1-2	38'- 6	11-12"
3	2'- 3	1- 2"	19	14'- 6	1- 6"	35	26'- 8	5- 6"	51	38'-11	1- 2"
3 1-2	2'- 8	1-12"	19 1-2	14'-10	3- 4"	35 1-2	27'- 1	5-12"	51 1-2	39'- 4	1-12"
4	3'- 0	2- 3"	20	15'- 3	1- 3"	36	27'- 6"		52	39'- 8	2- 3"
4 1-2	3'- 5	1- 4"	20 1-2	15'- 7	11-12"	36 1-2	27'-10	7-12"	52 1-2	40'- 1	1- 4"
5	3'- 9	5- 6"	21	16'- 0	1- 2"	37	28'- 3	1- 6"	53	40'- 5	5- 6"
5 1-2	4'- 2	5-12"	21 1-2	16'- 5	1-12"	37 1-2	28'- 7	3- 4"	53 1-2	40'-10	5-12"
6	4'- 7"		22	16'- 9	2- 3"	38	29'- 0	1- 3"	54	41'- 3"	
6 1-2	4'-11	7-12"	22 1-2	17'- 2	1- 4"	38 1-2	29'- 4	11-12"	54 1-2	41'- 7	7-12"
7	5'- 4	1- 6"	23	17'- 6	5- 6"	39	29'- 9	1- 2"	55	42'- 0	1- 6"
7 1-2	5'- 8	3- 4"	23 1-2	17'-11	5-12"	39 1-2	30'- 2	1-12"	55 1-2	42'- 4	3- 4"
8	6'- 1	1- 3"	24	18'- 4"		40	30'- 6	2- 3"	56	42'- 9	1- 3"
8 1-2	6'- 5	11-12"	24 1-2	18'- 8	7-12"	40 1-2	30'-11	1- 4"	56 1-2	43'- 1	11-12"
9	6'-10	1- 2"	25	19'- 1	1- 6"	41	31'- 3	5- 6"	57	43'- 6	1- 2"
9 1-2	7'- 3	1-12"	25 1-2	19'- 5	3- 4"	41 1-2	31'- 8	5-12"	57 1-2	43'-11	1-12"
10	7'- 7	2- 3"	26	19'-10	1- 3"	42	32'- 1"		58	44'- 3	2- 3"
10 1-2	8'- 0	1- 4"	26 1-2	20'- 2	11-12"	42 1-2	32'- 5	7-12"	58 1-2	44'- 8	1- 4"
11	8'- 4	5- 6"	27	20'- 7	1- 2"	43	32'-10	1- 6"	59	45'- 0	5- 6"
11 1-2	8'- 9	5-12"	27 1-2	21'- 0	1-12"	43 1-2	33'- 2	3- 4"	59 1-2	45'- 5	5-12"
12	9'- 2"		28	21'- 4	2- 3"	44	33'- 7	1- 3"	60	45'-10"	
12 1-2	9'- 6	7-12"	28 1-2	21'- 9	1- 4"	44 1-2	33'-11	11-12"	60 1-2	46'- 2	7-12"
13	9'-11	1- 6"	29	22'- 1	5- 6"	45	34'- 4	1- 2"	61	46'- 7	1- 6"
13 1-2	10'- 3	3- 4"	29 1-2	22'- 6	5-12"	45 1-2	34'- 9	1-12"	61 1-2	46'-11	3- 4"
14	10'- 8	1- 3"	30	22'-11"		46	35'- 1	2- 3"	62	47'- 4	1- 3"
14 1-2	11'- 0	11-12"	30 1-2	23'- 3	7-12"	46 1-2	35'- 6	1- 4"	62 1-2	47'- 8	11-12"
15	11'- 5	1- 2"	31	23'- 8	1- 6"	47	35'-10	5- 6"	63	48'- 1	1- 2"
15 1-2	11'-10	1-12"	31 1-2	24'- 0	3- 4"	47 1-2	36'- 3	5-12"	63 1-2	48'- 6	1-12"
16	12'- 2	2- 3"	32	24'- 5	1- 3"	48	36'- 8"		64	48'-10	2- 3"



TABLE OF LENGTHS USING 14" FOR A HEADER, STRETCHER AND TWO CROSS JOINTS

Number of Brick		Number of Brick		Number of Brick		Number of Brick	
0 1-2	4 2-3"	16 1-2	12'-10"	32 1-2	25'- 3 1-3"	48 1-2	37'- 8 2-3"
1	9 1-3"	17	13'- 2 2-3"	33	25'- 8"	49	38'- 1 1-3"
1 1-2	1'- 2"	17 1-2	13'- 7 1-3"	33 1-2	26'- 0 2-3"	49 1-2	38'- 6"
2	1'- 6 2-3"	18	14'- 0"	34	26'- 5 1-3"	50	38'-10 2-3"
2 1-2	1'-11 1-3"	18 1-2	14'- 4 2-3"	34 1-2	26'-10"	50 1-2	39'- 3 1-3"
3	2'- 4"	19	14'- 9 1-3"	35	27'- 2 2-3"	51	39'- 8"
3 1-2	2'- 8 2-3"	19 1-2	15'- 2"	35 1-2	27'- 7 1-3"	51 1-2	40'- 0 2-3"
4	3'- 1 1-3"	20	15'- 6 2-3"	36	28'- 0"	52	40'- 5 1-3"
4 1-2	3'- 6"	20 1-2	15'-11 1-3"	36 1-2	28'- 4 2-3"	52 1-2	40'-10"
5	3'-10 2-3"	21	16'- 4"	37	28'- 9 1-3"	53	41'- 2 2-3"
5 1-2	4'- 3 1-3"	21 1-2	16'- 8 2-3"	37 1-2	29'- 2"	53 1-2	41'- 7 1-3"
6	4'- 8"	22	17'- 1 1-3"	38	29'- 6 2-3"	54	42'- 0"
6 1-2	5'- 0 2-3"	22 1-2	17'- 6"	38 1-2	29'-11 1-3"	54 1-2	42'- 4 2-3"
7	5'- 5 1-3"	23	17'-10 2-3"	39	30'- 4"	55	42'- 9 1-3"
7 1-2	5'-10"	23 1-2	18'- 3 1-3"	39 1-2	30'- 8 2-3"	55 1-2	43'- 2"
8	6'- 2 2-3"	24	18'- 8"	40	31'- 1 1-3"	56	43'- 6 2-3"
8 1-2	6'- 7 1-3"	24 1-2	19'- 0 2-3"	40 1-2	31'- 6"	56 1-2	43'-11 1-3"
9	7'- 0"	25	19'- 5 1-3"	41	31'-10 2-3"	57	44'- 4"
9 1-2	7'- 4 2-3"	25 1-2	19'-10"	41 1-2	32'- 3 1-3"	57 1-2	44'- 8 2-3"
10	7'- 9 1-3"	26	20'- 2 2-3"	42	32'- 8"	58	45'- 1 1-3"
10 1-2	8'- 2"	26 1-2	20'- 7 1-3"	42 1-2	33'- 0 2-3"	58 1-2	45'- 6"
11	8'- 6 2-3"	27	21'- 0"	43	33'- 5 1-3"	59	45'-10 2-3"
11 1-2	8'-11 1-3"	27 1-2	21'- 4 2-3"	43 1-2	33'-10"	59 1-2	46'- 3 1-3"
12	9'- 4"	28	21'- 9 1-3"	44	34'- 2 2-3"	60	46'- 8"
12 1-2	9'- 8 2-3"	28 1-2	22'- 2"	44 1-2	34'- 7 1-3"	60 1-2	47'- 0 2-3"
13	10'- 1 1-3"	29	22'- 6 2-3"	45	35'- 0"	61	47'- 5 1-3"
13 1-2	10'- 6"	29 1-2	22'-11 1-3"	45 1-2	35'- 4 2-3"	61 1-2	47'-10"
14	10'-10 2-3"	30	23'- 4"	46	35'- 9 1-3"	62	48'- 2 2-3"
14 1-2	11'- 3 1-3"	30 1-2	23'- 8 2-3"	46 1-2	36'- 2"	62 1-2	48'- 7 1-3"
15	11'- 8"	31	24'- 1 1-3"	47	36'- 6 2-3"	63	49'- 0"
15 1-2	12'- 0 2-3"	31 1-2	24'- 6"	47 1-2	36'-11 1-3"	63 1-2	49'- 4 2-3"
16	12'- 5 1-3"	32	24'-10 2-3"	48	37'- 4"	64	49'- 9 1-3"



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